

Oct. 31, 1950

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2,527,515

ANTIRATTLE DEVICE

Filed June 22, 1946

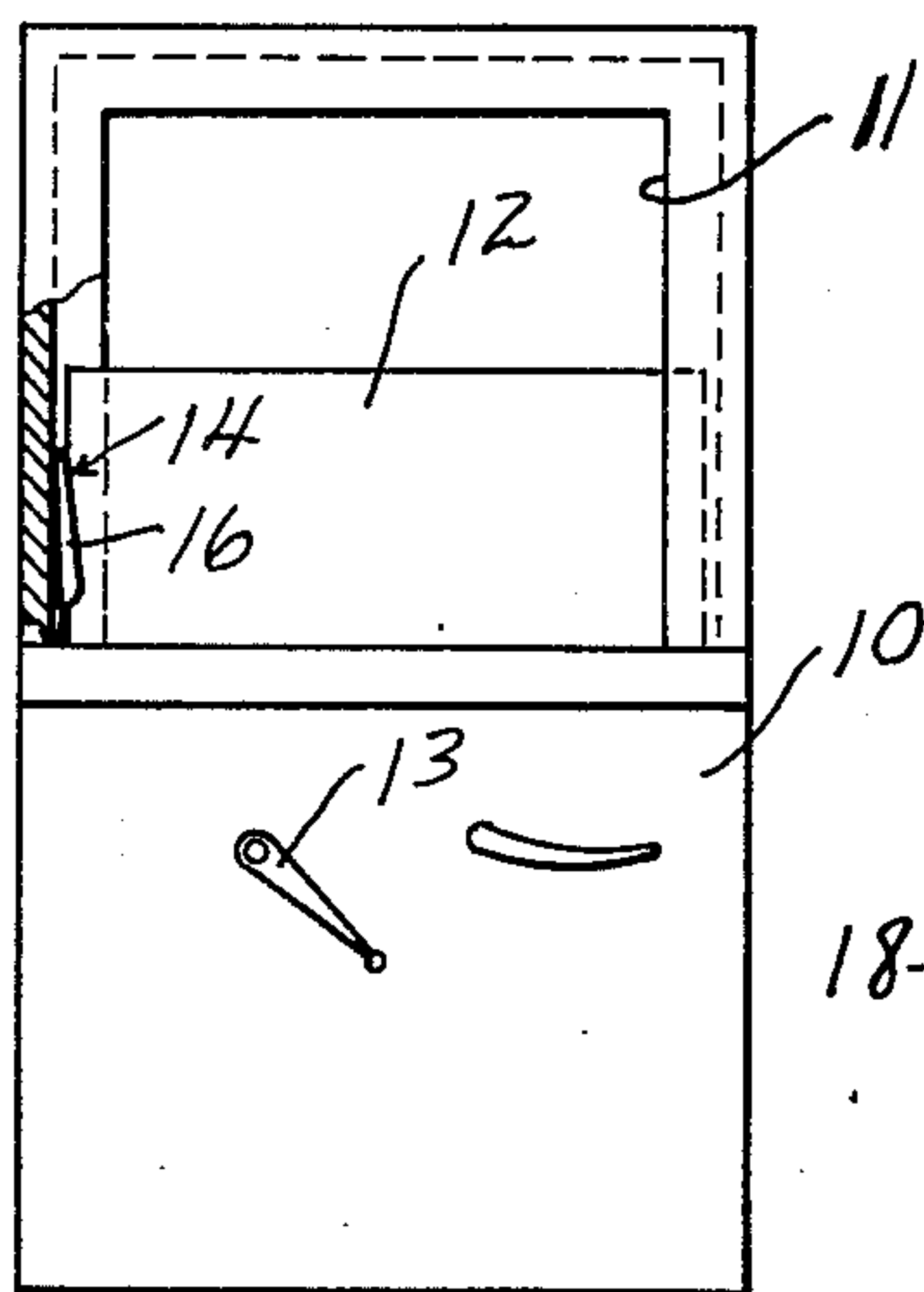
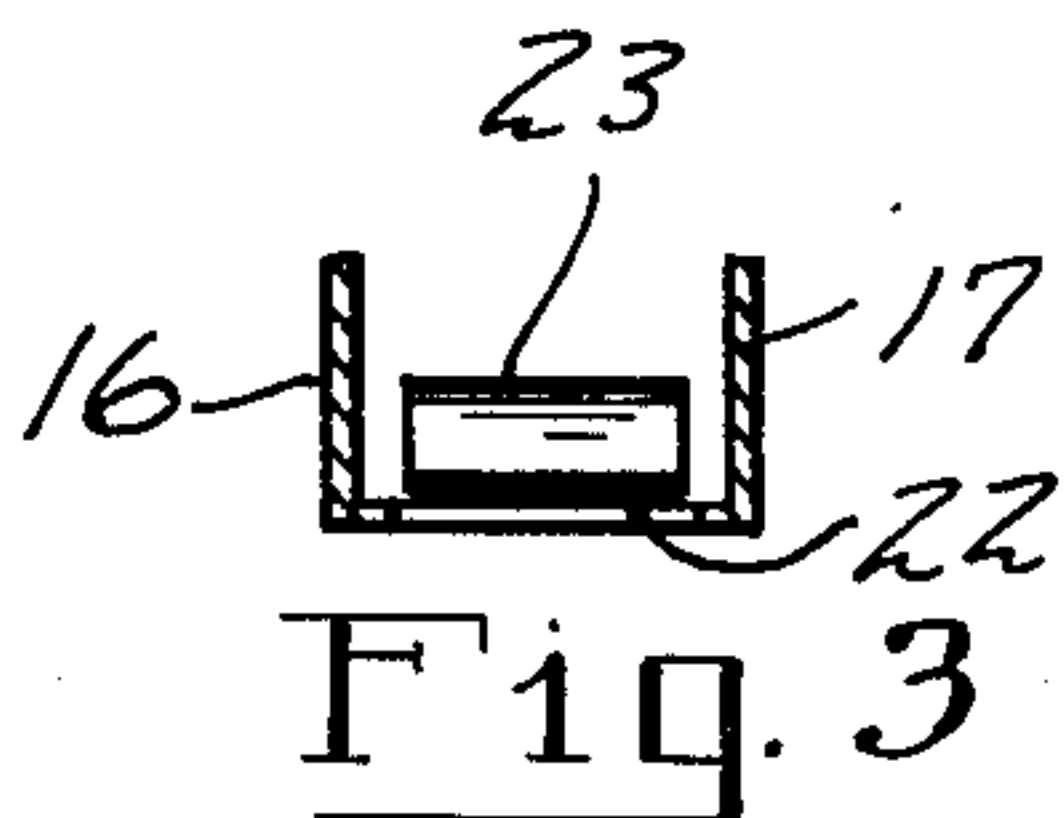


Fig. 1

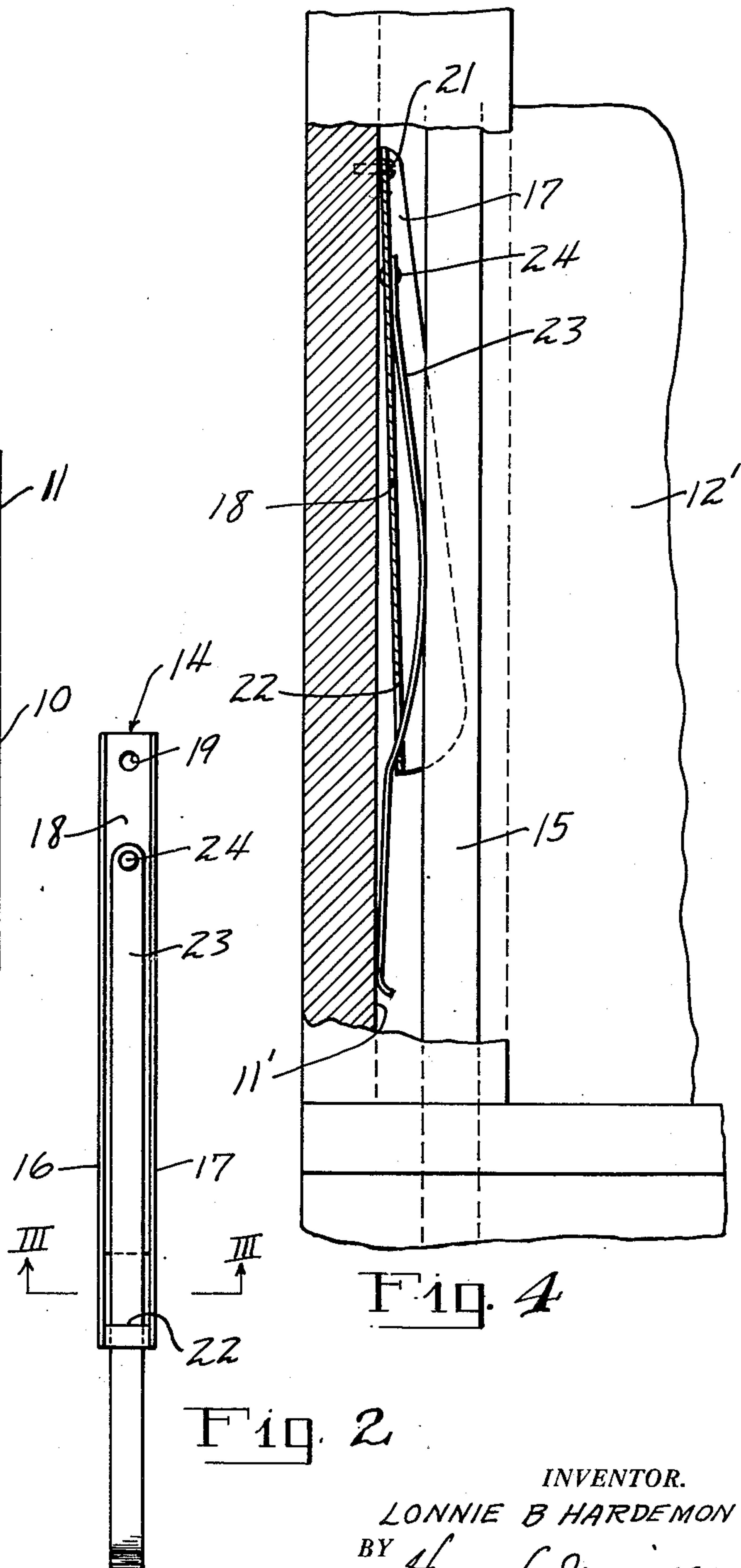


Fig. 4

Fig. 2

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2,527,515

ANTIRATTLE DEVICE

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Application June 22, 1946, Serial No. 678,651

3 Claims. (Cl. 16—1)

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This invention relates to an anti-rattle device for sliding panels in windows and doors and while not limited thereto, is particularly adapted for use with the sliding glass windows of vehicles such as automobiles, buses and the like which are especially apt to rattle due to the vibration of the vehicle.

A specific object of my invention is to provide a device of the character designated which shall be simple of design, readily installed without the use of special tools, and one which shall be effective in operation to hold a window glass or sash against rattling or breakage.

Briefly, my invention contemplates a channel-like member adapted to be inserted between the window sash or glass and the side of the opening, with the sides of the channel bearing against the sides of the glass or window sash, and with a leaf spring carried by the channel member and so disposed as to bear against both the glass or sash, and the side of the opening.

A device embodying features of my invention is illustrated in the accompanying drawing, forming a part of this application, in which

Fig. 1 is a view in elevation, partly in section, showing my improved device applied to an automobile window;

Fig. 2 is a view drawn to a larger scale showing the device removed from the window;

Fig. 3 is a sectional view taken along the line III—III of Fig. 2; and

Fig. 4 is an enlarged sectional elevation showing in detail the device applied to a window in which the glass is provided with a sash or frame.

Referring now to the drawing for a better understanding of my invention, I show in Fig. 1 a motor vehicle door 10 having an opening 11 therein and fitted with glass 12 adapted to be raised and lowered as by the crank 13. In Fig. 4, the opening 11' is fitted with a glass panel 12' having a sash or frame 15. In either case, the panel is held against rattling by my improved anti-rattle device which will now be described.

The device comprises a channel-like member 14 having side flanges 16 and 17 which increase in depth from one end to the other. The base, or web 18 of the channel is mounted to bear against the side of the opening 11 and is provided with a hole 19 near the end of the device where the side flanges 16 and 17 are lowest. A screw 21, or other fastening device, extends through the hole into the side of the opening to retain it in place. At the other end of the device, the web 18 is provided with an elongated slot 22.

Mounted in the channel of the device is an

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elongated, curved leaf spring 23 which is riveted to the web member 18 at 24, near the end of the device adjacent the fastening screw 21. The spring 23 is curved outwardly of the channel as shown in Fig. 4 and has its other end extending through the elongated slot 22 beyond the end of the channel. When installed, as shown particularly in Fig. 4 of the drawing, the summit of the curved portion of the spring bears against edge of the sash or glass 12 while the elongated end of the spring bears against the side of the opening 11. The side flanges 16 and 17 bear against the sides of the glass and prevent rattling or breaking of the glass. When so installed, it will be seen that the outer end of the slot 22 acts as a fulcrum to cause the spring 23 to bear snugly against the edge of the glass or sash and the side of the opening.

From the foregoing, it will be apparent that I have devised an improved anti-rattle device which is simple of design, easily installed, and one which is effective to prevent rattling or breakage of the glass in windows under operating conditions.

While I have shown my invention in but one form, it will be obvious to those skilled in the art that it is not so limited, but is susceptible of various changes and modifications, without departing from the spirit thereof, and I desire, therefore, that only such limitations shall be placed thereupon as are specifically set forth in the appended claims.

What I claim is:

1. An anti-rattle device for a panel mounted to slide in a frame comprising a metal channel member having side flanges tapering in depth from end to end and a base web with means to secure the channel to the frame, said web having an elongated slot therein adjacent the deep end of the channel, a curved leaf spring mounted in the channel and secured to the web adjacent the shallow end of the channel and bowing outwardly of the channel between its ends, and having its free end extending through the slot in the web beyond the end of the channel to bear against the side of the opening.

2. An anti-rattle device for a panel mounted to slide in a frame comprising a metal channel member having side flanges between which the panel is received a web forming the bottom of the channel and having an elongated slot therein, and an elongated curved leaf spring secured at one end in the channel and extending at its other free end through the slot beyond the end of the channel, said spring having its curved portion

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bearing against the sliding edge of the panel, and its free end bearing against the side of the frame.

3. In an anti-rattle device for a panel mounted to slide in a frame, a channel member having a web and side flanges between which the panel is received, a leaf spring fitting between the side flanges and convexly curved with respect to the panel, and having the summit of the curved portion in contact with the side of the panel, there being an elongated slot in the web adjacent one end of the channel, and means to secure one end of said spring to the web adjacent the other end of said channel with the free end thereof passing through the slot and in position to bear against the frame.

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