

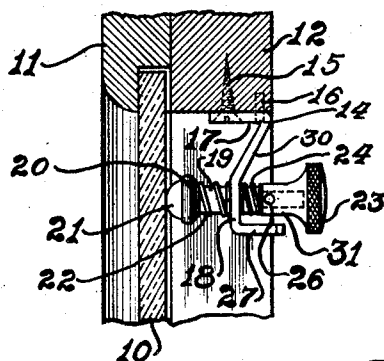
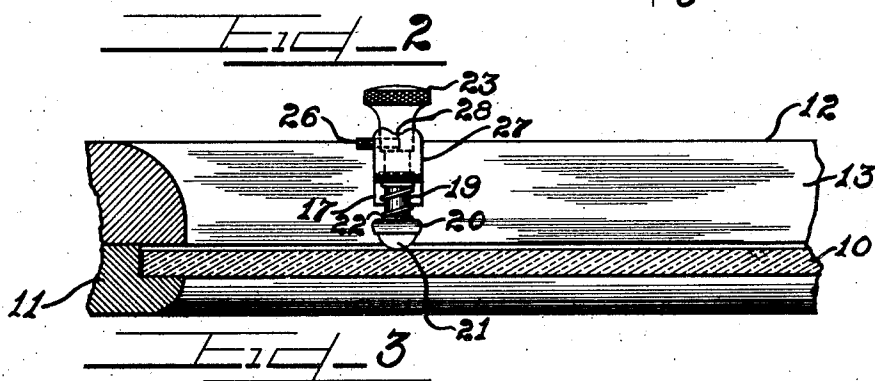
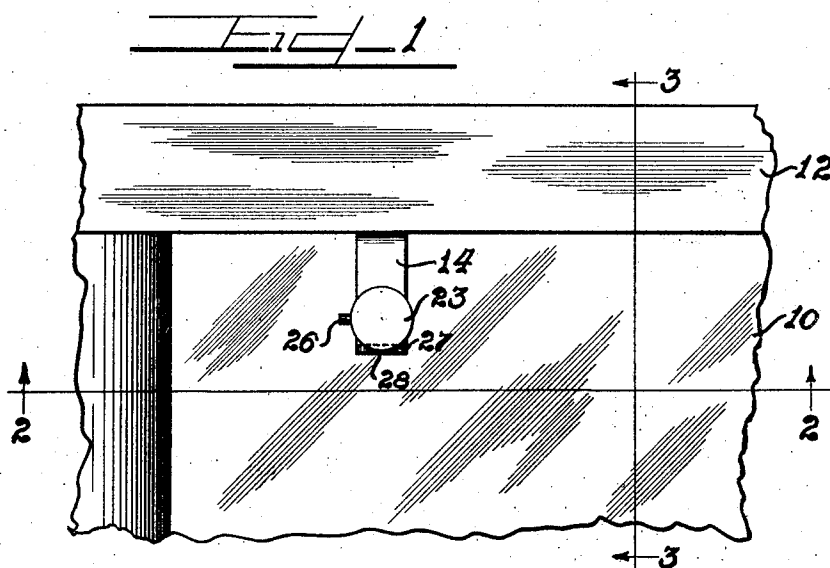
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R. J. VOYT

ANTIRATTLER

Filed Feb. 28. 1923



Witnesses

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by

UNITED STATES PATENT OFFICE.

RUDOLPH J. VOYT, OF CICERO, ILLINOIS.

ANTIRATTLER.

Application filed February 28, 1923. Serial No. 621,698.

To all whom it may concern:

Be it known that I, RUDOLPH J. VOYT, a citizen of the United States, and a resident of the town of Cicero, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in an Antirattler; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the numerals of reference marked thereon, which form a part of this specification.

This invention relates to devices for preventing the rattling of windows. It is particularly adapted to the windows of vehicles such as automobiles, but it may also be used to advantage upon ordinary house windows.

It is an object of this invention to provide a device of the class described which may be secured directly to the window frame without requiring any reorganization of the window or of the frame.

It is a further object of this invention to provide a device of the class described which may be readily moved into a position in which it releases the window for opening or closing thereof and may be readily fastened in said release position.

It is a further object of this invention to provide a device which may be held resiliently against the window with sufficient force to hold the window in any desired position and yet can be brought to window releasing position without any great effort.

It is a further object of this invention to produce a device of the class described which shall be silent both when holding the window and when idle.

It is a further object of this invention to provide a device of the class described which shall be inexpensive to manufacture, shall have few and simple parts and will not be likely to get out of order.

Other and further important objects of this invention will be apparent from the disclosures in the specification and the accompanying drawings.

The invention (in a preferred form) is illustrated in the drawings and hereinafter more fully described.

On the drawings:

Figure 1 is a view of a portion of a window illustrating the application of my device thereto.

Figure 2 is a section upon the line 2—2 of Figure 1.

Figure 3 is a section upon the line 3—3 of Figure 1.

As shown on the drawings:

The window glass 10 slides in the frame 11 in the usual way. One portion 12 of the window frame will have a face 13 standing practically at right angles to the glass 10. To this face 13 there is fastened one end 17 of a Z-shaped support 14. Preferably the fastening is by means of a screw 15 and a pair of lugs 16 struck up from the end member of the Z-shaped support. The slope of the middle member 30 of the Z-shaped support is sufficient to bring the end thereof opposite the middle of the foot 17 by which it is secured to the frame 12. Preferably the sloping part 30 is continued by a portion 18 which is intended to be parallel to the glass. The portion 18 is provided with a hole through which the shaft 19 is passed.

On the end next to the glass, the shaft 19 is provided with a seat 20 which receives a cushion 21 secured in the seat in any desired fashion, as, for example, by extending underneath the beveled side walls of the seat. A spring 22 is located between the seat 20 and the part 18 of the support 14. On the other end of the shaft 19 is a knob consisting of a knurled head 23 and a neck 31. This is secured to the shaft 19 in any desired way, preferably by having the neck 31 threaded to screw onto the shaft 19. Between the end of the neck 31 and the part 18 of the Z-shaped piece 14 is a spring 24. This spring is of lighter material than the spring 22 and exerts less tension. The tension exerted by the spring can be adjusted by screwing the knob 23 along the shaft 19.

A pin 26 is secured in the neck 31 of the knob 23. The end of the Z-shaped support 14 is turned parallel to the shaft 19, as illustrated in Fig. 3 at 27. The edge of this end farthest from the glass is provided with a notch 28, best shown in Fig. 2. The pin 26 may be located in this notch or by rotating the knob 23 it may be located parallel to the plane of the end 27. In the latter position the action of the spring 22 in bringing the cushion 21 against the glass brings the pin 26 nearer the glass than the notch 28.

In the use of the device, it is secured to the face 13 of the window frame by means

of the screw 15 and lugs 16. The glass 10 is slid to the desired position and the knob 23 is manipulated to remove the pin 26 from the notch 28. When the knob is released 5 the spring 22 acting against the weaker spring 24 moves the cushion 21 into contact with the glass. This cushion is preferably of rubber or other material which will afford abundant friction and so hold the glass 10 in the position into which it has been slid. Also by pressing the glass firmly against the farther side 11 of the frame, it will prevent rattling of the glass.

When it is desired to move the glass to 15 another position, the knob 23 is pulled, removing the cushion 21 from the glass and leaving the glass free to move. The knob 23 is then rotated to bring the pin 26 opposite the notch 28 and then left to the action of 20 the springs. The spring 22 tends to hold the knob at the left, as shown in Fig. 3, keeping the pin 26 in the notch. If some sudden lurch of the vehicle lifts the pin from the notch, the spring 22 will return it, but 25 this return will not be accompanied by a click because it is cushioned by the spring 24. If, with the window open, the apparatus be left with the pin 26 out of the notch 28, the springs 22 and 24 will hold the 30 plunger in a balanced position between them and no rattling will occur. Thus the appliance is silent at all times.

I am aware that numerous details of construction may be varied through a wide 35 range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted otherwise than necessitated by the prior art.

I claim as my invention:

40 1. In a device for preventing windows from rattling, a support attached to the window frame, an element carried by said support, and springs of different tension on said element on opposite sides of said support to cause the element to resiliently contact the window.

2. In a device for preventing rattling of a window, a Z-shaped support, means for at-

taching said support to a face of the window frame at right angles to the glass, a contact- 50 ing device extending through said support, a cushion on said device adapted to contact with the window glass, and resilient means for holding said device in a position in which said cushion contacts with the glass. 55

3. In a device for preventing rattling of a window, a Z-shaped support, means for attaching said support to a face of the window frame at right angles to the glass, a contacting device extending through said 60 support, a cushion on said device adapted to contact with the window glass, resilient means for holding said device in a position in which said cushion contacts with the glass, and detent means for holding said 65 device in a position in which the cushion is out of contact with the glass.

4. In a device of the class described, a plunger adapted to be positioned to exert pressure against a window, an arm on said 70 plunger, a support through which said plunger extends, said support having a notch therein suitably located to receive said arm and thereby hold said plunger retracted, 75 and a plurality of resilient members of different strength on said plunger on opposite sides of said support.

5. In a device for preventing a window from rattling, a support, a plunger extending through said support, a spring acting 80 between said plunger and said support to force said plunger toward the window, a weaker spring acting between said plunger and said support and tending to force said plunger away from said window, detent 85 means for holding said plunger away from said window, and friction producing cushioning means on the end of said plunger toward said window.

In testimony whereof I have hereunto sub- 90 scribed my name in the presence of two subscribing witnesses.

RUDOLPH J. VOYT.

Witnesses:

FRED E. PAESLER,
OSCAR HARTMANN.