R. E. WILKINSON.

ANTIRATTLER FOR WINDOWS, &c.

APPLICATION FILED DEC. 24, 1908.

918,625. Patented Apr. 20, 1909.

Fig. 1.

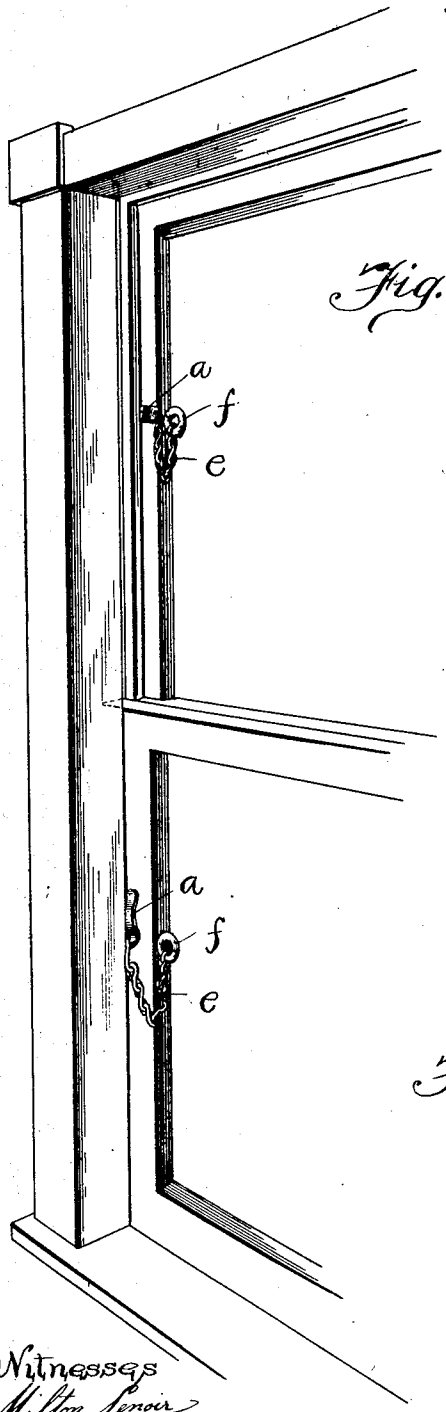


Fig. 2.

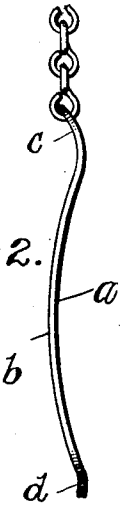
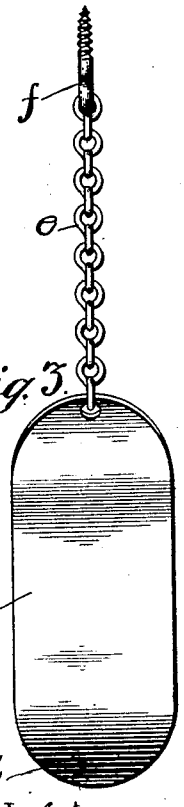


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

ROBERT E. WILKINSON, OF KENOSHA, WISCONSIN.

ANTIRATTLER FOR WINDOWS, &c.

No. 918,625. Specification of Letters Patent. Patented April 20, 1909.

Application filed December 24, 1908. Serial No. 469,099.

To all whom it may concern:

Be it known that I, ROBERT E. WILKINSON, a citizen of the United States, residing at Kenosha, in the county of Kenosha and State of Wisconsin, have invented certain new and useful Improvements in Antirattlers for Windows, &c., of which the following is a specification.

This invention relates to improvements in anti-rattlers for windows, etc., and it has for its salient objects to provide an extremely simple, and therefore economically constructed, device which is capable of unusually wide range of adjustment to suit differing conditions; to provide a device which may be very conveniently applied and detached and may therefore be conveniently carried by traveling men; to provide a device which is applied in such manner that the opening or closing of the window is not prevented nor can the device be injured by such operation and in general to provide an improved device of the character referred to.

Figure 1 is a fragmentary perspective view of a window equipped with two of my devices and showing particularly the different manners of inserting the same between the sash and casing members. Fig. 2 is an edge view of one of my anti-rattlers part of the chain being broken away. Fig. 3 is an end elevation of the same taken at right angles to the view shown in Fig. 2.

In its most approved form, viz. that shown in the accompanying drawing, I construct the device proper *a* of a stamping or blank of spring sheet metal,—preferably of bronze or hard brass.

The device is preferably of elongated elliptical form as best shown in Fig. 3, and after being blanked out is shaped in a suitable former to give it an approximately bow shape throughout its chief length, as indicated at *b*, terminating at one end in a reversed curved portion *c* and at its opposite end in a straight or flat-tipped portion *d*. I prefer to use metal of about 27 gage and I so proportion the curve or bow of the device that when in its normal or unsprung shape it will be curved sufficiently to occupy as wide a crack as is likely to be found between the window sash stile and the stop of any ordinary window. The resiliency of the metal is such, and the curves into which the device is formed such that it may be flattened out almost perfectly flat without straining the metal beyond its elastic limit, *i. e.* without permanently changing its form. Accordingly the device may be used to prevent rattling between parts in any crack from one of substantially the same width as the thickness of the metal to one which is as wide as the distance between the convex side of the device in its normal shape and a plane touching the opposite side of the curve *c* and the corresponding side of the tip *d*.

For convenience of mounting the device so that it will always be retained in proper association with the sash stile, I attach the chain *e* and screw-eye *f* to the curved end *c* of the device.

In use the anti-rattler is applied between the sash stile and the stop or between other parts which are to be held under tension in various positions depending upon the width of the crack. If the crack is quite small the tip end *d* will be inserted into the crack, the longitudinal axis of the device being arranged about at right angles to the stile, as seen clearly in the upper part of Fig. 1. If the crack is so wide that the tip *d* and the body portion of the device immediately adjacent to the tip are not sufficient to occupy the space and hold the sash under tension, then the device is turned sidewise and inserted as shown in the lower part of Fig. 1. The device may, of course, be applied in positions intermediate between the two described.

I prefer to fasten the device to the sash so that it is prevented from dropping out and becoming lost when the sash is moved in raising and lowering it and at the same time this prevents accidental injury to the device by dropping down where the sash might be lowered upon it.

I have found that the securing of the device to the sash is best accomplished by using a screw-eye and inserting it in a direction approximately parallel with the plane of the sash and inside of the face plane of the latter so that should the sash be moved past the meeting rail of the other the screw-eye does not interfere nor is the anti-rattler caught and injured between the sash.

I preferably nickel plate or otherwise finish the sheet metal so that it retains its permanent finished appearance.

It will be obvious that the device is one which may be made at a minimum cost in large quantities; that it is self-adjusting within the ranges of its capacity; that it is formed of a single piece of such shape that it readily suggests to the user how it had best be ap-

plied to secure the best results and that it is effective and durable.

It will be understood that the device may be somewhat modified without departing from the spirit of the invention.

I claim as my invention:

1. An anti-rattler for windows consisting of an elongated resilient sheet-metal plate adapted to be removably inserted between the meeting sides of the sash and casing and having rounded ends and permanently bowed between its ends, said bowed portion merging smoothly at one end into a reversely-curved portion and at its opposite end into a flat tip portion lying approximately in the general plane of the device as a whole.

2. An anti-rattler for windows adapted to be removably inserted between the meeting sides of the sash and casing of the window, and comprising a plate formed of spring sheet metal, of elongated form, rounded at its ends, bowed between said ends, and provided with a chain and screw eye attachment.

ROBERT E. WILKINSON.

Witnesses:

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