

(No Model.)

E. J. DONOVAN.
ANTIRATTLER FOR WINDOWS.

No. 546,657.

Patented Sept. 24, 1895.

Fig. 1.

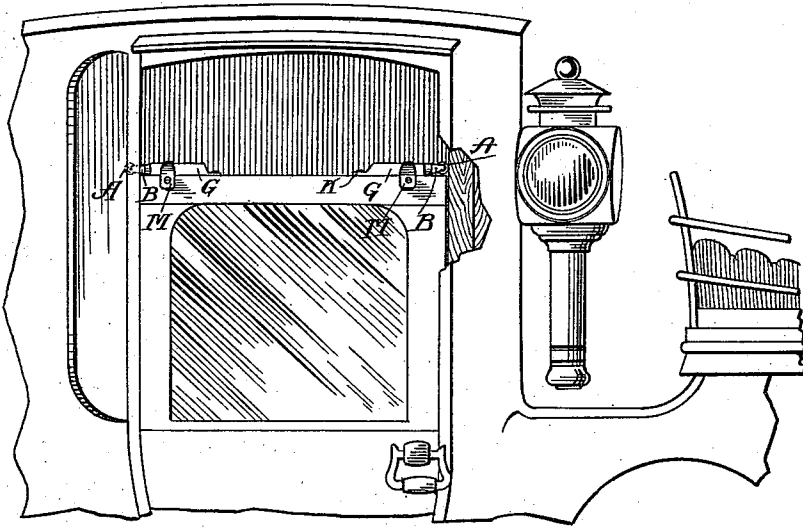


Fig. 2.

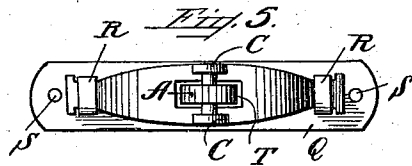
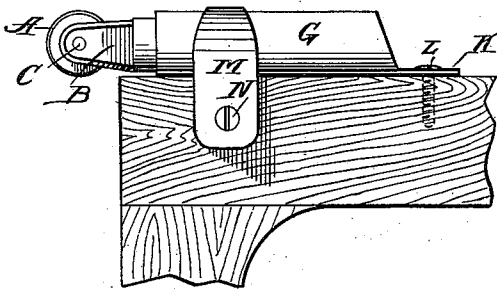


Fig. 6.

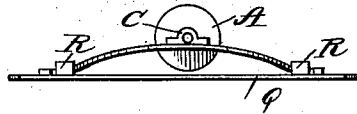


Fig. 3.

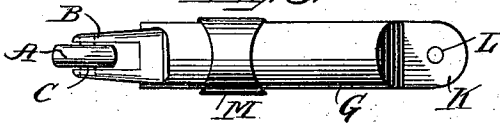
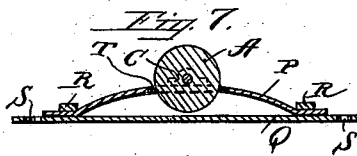
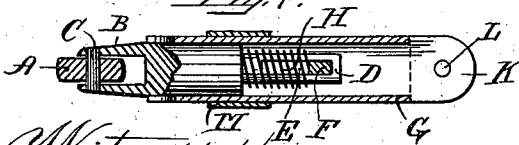


Fig. 4.



Witnesses.

Parker H. Jenkins.
Cyrus F. Willard.

Inventor.

Edward J. Donovan.

UNITED STATES PATENT OFFICE.

EDWARD J. DONOVAN, OF BOSTON, MASSACHUSETTS.

ANTIRATTLER FOR WINDOWS.

SPECIFICATION forming part of Letters Patent No. 546,657, dated September 24, 1895.

Application filed February 27, 1895. Serial No. 539,922. (No model.)

To all whom it may concern:

Be it known that I, EDWARD J. DONOVAN, a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Antirattlers for Windows, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to an improvement in sash-holders for carriages and other vehicles where windows are used and is primarily designed to prevent the rattling of the windows when the carriage or vehicle is in motion.

I attain these objects by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side view of a vehicle with my mechanism attached to the window thereof. Fig. 2 is a longitudinal view of the invention. Fig. 3 is a top view of the same. Fig. 4 is a sectional view of the same. Fig. 5 is a top view of my invention when applied to places other than the ends of the window and for curvilinear windows. Fig. 6 is a side elevation of Fig. 5, and Fig. 7 is a sectional view of Fig. 5.

Similar letters refer to similar parts throughout the views.

A is a roller or wheel, of metal or other material, held in the metallic holder B by the shaft C, on which it rotates. The holder B is tubular in form and has an arm D, which is provided with a rectangular slot E.

G is a metallic tube provided with a stop F, which is adapted to rest in the slot E of the holder B, as shown in Fig. 4.

H is a spring having one end resting against the holder B where the arm D joins it and coiling around the said arm D and the other end of said spring H resting in the slot E and adapted to be pushed or held against the stop F of the tube G. The end K of the tube G is made flat and provided with a hole L.

M is a metallic binder fixed on and around the tube G and provided with holes N N at the lower ends thereof and adapted to fit over and around the top woodwork of window-sash.

In Figs. 5, 6, and 7, Q is a straight piece of metal provided with the hole S and having the elliptic spring P, held therein by the metallic straps R R at each end of the bar Q, the roller A being held on said metallic spring by

the shaft C, journaled in suitable boxes V V thereon, and the metallic spring P having the rectangular slot T, in which the roller A is allowed to rotate. I place my mechanism upon the top of the window-sash at the ends thereof and fix it into position by screws through the holes N N of the metallic binder M and a screw through the hole L of the end K of the tube G, as shown in Fig. 2, allowing the roller A to rest against the adjoining vertical surfaces of the vehicle, as shown in Fig. 1. My mechanism is placed on each of the ends in a similar manner, as shown in Fig. 1. The springs H, arranged as heretofore described, keep the rollers A pressed against the vertical surfaces of the carriage or other vehicle, and thus the window is firmly held and kept from rattling while the vehicle is in motion.

It is obvious that in the mechanism heretofore described the roller A is held against the vertical sides only at the top of the window, but by means of the metal piece Q being countersunk in the vertical surface or curvilinear surface of a window and held in place by screws passing through the holes S S the roller A is pressed against the adjoining surface, vertical or curvilinear, of the vehicle and kept firm by the elliptical spring P, which acts in a recess mortised in the window-sash to receive it.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

In a sash holder for carriage or other vehicle windows in combination the tube G provided with the end K and the stop F with the binder M arranged thereon and the holder B having the arm D with a rectangular slot E in which said stop F is arranged with a spring H arranged around said arm D as shown and the roller A upon the shaft C arranged in the holder B all substantially as shown and described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 19th day of January, A. D. 1895.

EDWARD J. DONOVAN.

Witnesses:

JOSEPH A. BUTLER,
H. DUNHAM.