L. JONES. & J. STROUD.

Sash-Holder.

No. 197,277. Patented Nov. 20, 1877.

Fig. 1.

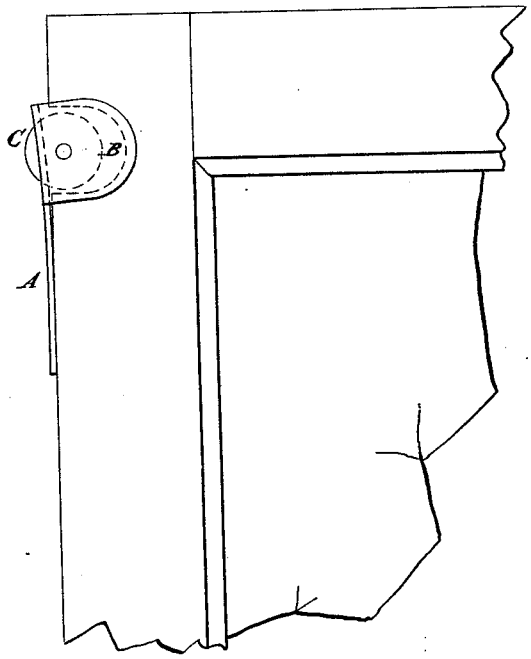
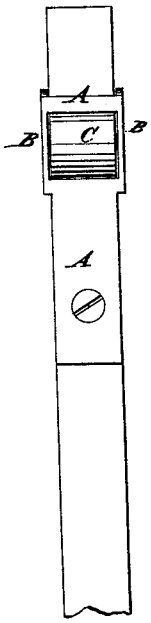


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

LUTHER JONES AND JAMES STROUD, OF NEW YORK, N. Y.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. **197,277**, dated November 20, 1877; application filed October 19, 1877.

To all whom it may concern:

Be it known that we, LUTHER JONES and JAMES STROUD, of the city, county, and State of New York, have invented a new and useful Improvement in Car-Sash Rollers, of which the following is a specification:

Figure 1 is a side view of our improved device, shown as applied to the sash. Fig. 2 is a face view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved roller for the window-sash of street-cars, stages, and other vehicles, to prevent the sash from binding or sticking upon the casing, causing it to move up and down freely, and preventing it from rattling.

The invention consists in the curved spring-plate, secured at one end to the edge of the sash, and having lugs formed upon the side edges of its other end, overlapping the sides of the sash, and having the ends of a roller pivoted to them in such a way that its side may project through a slot in the said spring-plate to bear against the casing, as hereinafter more fully described and claimed.

A represents a plate of hardened brass or other suitable material, which is made of a width equal to the thickness of the sash, and in which, near one end, is formed a hole to receive a screw for securing it to the edge of a sash. The plate A is curved outward slightly to give it elasticity.

Upon the side edges of the free end of the spring-plate A are formed lugs B, which project at right angles with the plate A, so as to overlap the sides of the sash.

To the lugs B are pivoted the ends of a roller, C, made of hard rubber or other suitable material, in such a position that its side may project through a slot in the said spring-plate A, sufficiently to bear against the casing of the window.

The lugs B are made of such a size as to cover at all times the notch formed in the sash to receive the roller C.

With this construction the roller C bears against the casing and prevents the sash from binding or sticking, and causes it to move up and down easily and freely.

With this construction the spring A will yield, and allow the roller C to be forced into the notch in the sash, where the sash and casing may be swollen by dampness. The roller C also, by bearing against the casing, prevents the sashes from rattling when the vehicle is in motion. Four of these rollers are designed to be used upon each sash, two near its upper and two near its lower corners.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The curved spring-plate A, secured at one end to the edge of the sash, and having lugs B formed upon the side edges of its other end, overlapping the sides of the sash, and having the ends of a roller, C, pivoted to them in such a way that its side may project through a slot in the said spring-plate A to bear against the casing, substantially as herein shown and described.

LUTHER JONES.
JAMES STROUD.

Witnesses:
E. D. GRANT,
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