S. LEWIS.

Sash-Holder.

No. 169,011. Patented Oct. 19, 1875.

Fig. 1.

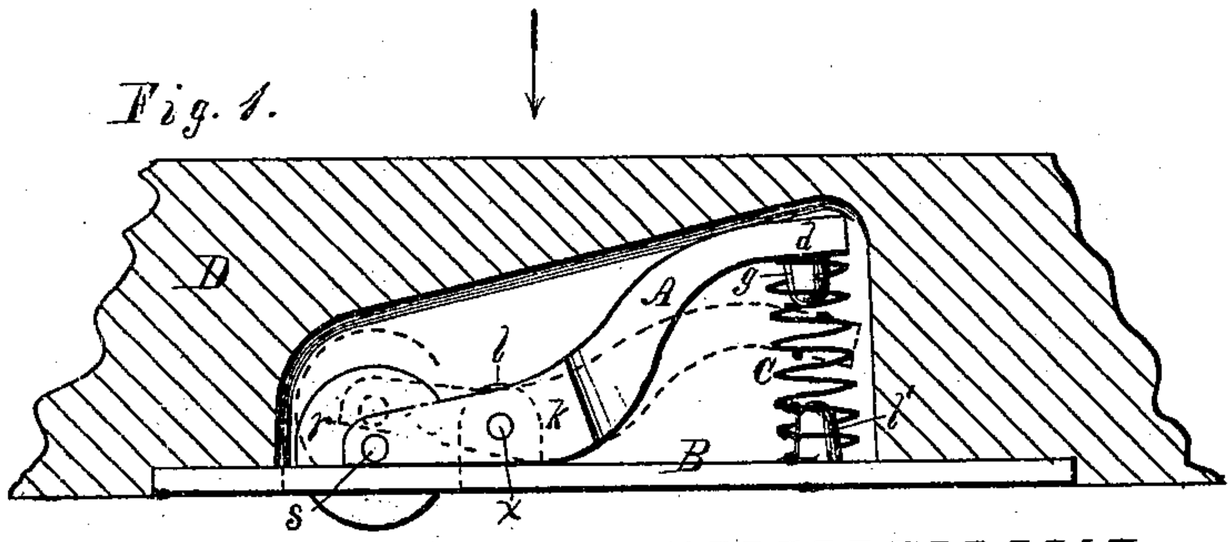
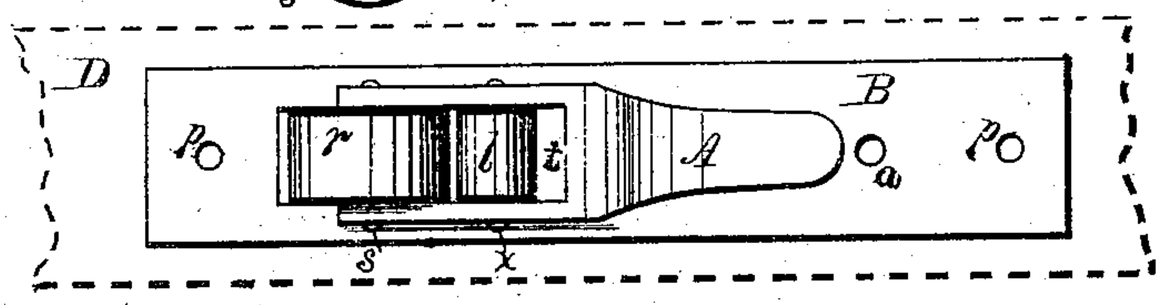


Fig. 2.



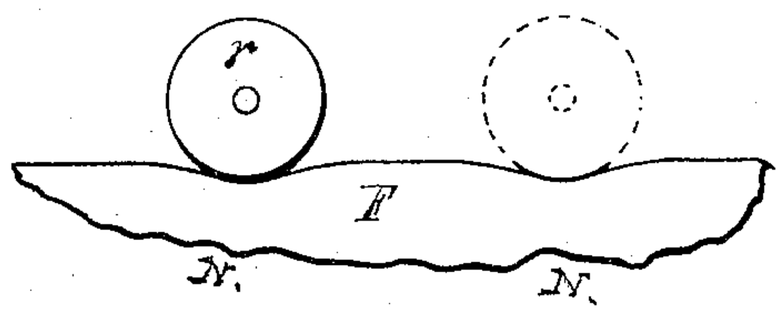


Fig. 3.

Witnesses:
A. G. Parsons
E. C. Patterson

Inventor:
Sylvester Lewis per
B. F. Parsons his atty in fact

UNITED STATES PATENT OFFICE.

SYLVESTER LEWIS, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. **169,011**, dated October 19, 1875; application filed August 27, 1875.

To all whom it may concern:

Be it known that I, SYLVESTER LEWIS, of the city of Rochester, in the county of Monroe and State of New York, have invented new and useful Improvements in Sash-Holders; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, sufficient to enable those skilled in the art to which it appertains to construct and make use of the invention, reference being had to the drawings accompanying this specification, and to the figures and letters of reference marked thereon, in which like letters refer to like parts.

Figure 1 is a side view of my improved sash-holder in position. Fig. 2 is a rear view, looking toward the face; and Fig. 3 shows a part of the sash-frame with its indentations.

This invention relates to sash-holders, but especially designed for sash for railroad-cars.

Sash-holders of this kind have usually been so complex, and in consequence the several parts so small, that they were deficient in strength, and soon got out of repair, and of course became inoperative or useless; and the object of my improvement is to simplify the construction of sash-holders by reducing the number of parts used, and to increase the strength of those that are used, to the end that the holder may be more durable and the cost lessened.

My invention consists in a slotted face-plate, on the back of which, acting on a fulcrum formed by a pivot or axle passing through a lug, is a rocking lever, at the bifurcated front end of which is journaled a metal roller, whose periphery protrudes through the slotted plate, and a spring, held in position at the rear end of the lever by suitable lugs, for actuating the lever, all as will be hereinafter more fully described.

B represents the face-plate of my invention, which is about four inches long, three-fourths of an inch wide, and one-eighth inch thick, to the back of which are attached the parts constituting the invention. *p p* are perforations for attaching the plate, by screws, to the window-frame; and *o*, another perforation for ventilating and escape of dust collecting back of the face-plate. The pivot or axle *x*, passing through the lug *l*, forms the fulcrum for the bent and bifurcated rocking lever A, the front end *d* of which is bifurcated, and in the sides thereof are journaled the axles of the roller *r*, directly opposite to and having a section of its periphery protruding through the slot *t* of the face-plate B, the office of the roller being, in raising or lowering the sash, to reduce the friction to which this movement makes it liable, and in directing its force into the indentations N of the sash-frame, to hold the sash in the frame at any preferred height. C is a spring, held in place on the lever by the lug *g*, and to the face-plate by the lug *l'*, and acts, through the lever A, on the roller *r* automatically and continuously, forcing the roller to accommodate itself to all the inequalities on the edge of the sash.

The power of this spring may be increased or diminished to suit the weight of the sash, but its retaining power is aided by the closeness of the fit of the sash in the frame; but these are all—the friction of the frame, pressure of the roller, and power of the spring—rated with reference to the power of the hand, and to be controlled and overcome by it.

Having thus described my improvement, what I claim as new, and wish to secure by Letters Patent, is—

An improved sash-holder, consisting of the slotted face-plate B, having lugs *l* and *l'*, the bent and bifurcated rocking lever A, having the projecting end *d* and lug *g*, and rocking on the pivot or axle *x*, passing through the lug *l* of the face-plate, the roller *r*, rotating on its axle *s*, and journaled in the forked end of the lever, and the coil-spring C, kept in position by lugs *g* and *l'*—one on the projecting end of the lever, the other on the inside of the face-plate—all constructed, arranged, and operating substantially as described and shown, for the purposes set forth.

In testimony whereof I have hereunto, in the presence of these two witnesses, subscribed my name this 10th day of August, A. D. 1875.

SYLVESTER LEWIS.

Witnesses:

FRANK KINGSLEY,

P. B. BROTHERS.