R. HOLCROFT.

SASH-HOLDER.

No. 177,247. Patented May 9, 1876.

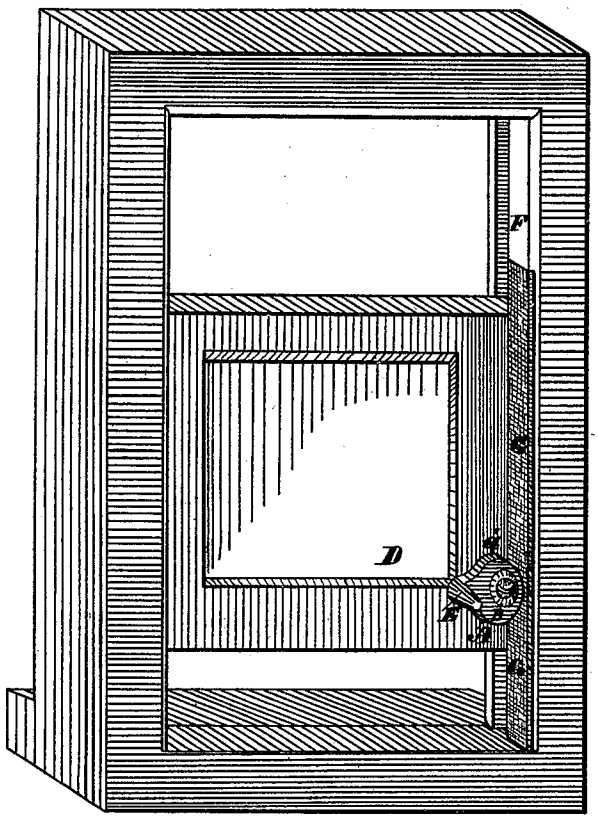

Fig. 1

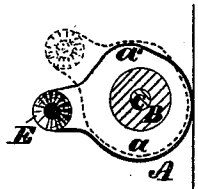

Fig 2

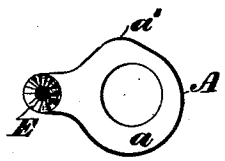

Fig. 3

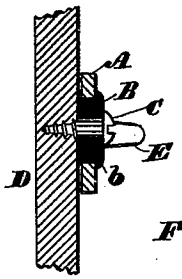

Fig. 4

Witnesses

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UNITED STATES PATENT OFFICE.

RICHARD HOLCROFT, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. **177,247**, dated May 9, 1876; application filed March 16, 1876.

To all whom it may concern:

Be it known that I, RICHARD HOLCROFT, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improved Sash-Holder; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a perspective of my invention. Fig. 2 is a plan of the cam and vertical transverse section of the sleeve and screw. Fig. 3 is a plan view of the cam. Fig. 4 is a vertical transverse section of my invention.

The object of my invention is to provide a simple and comparatively inexpensive device for holding up window-sashes at any altitude, said device being self-acting, and being designed particularly for car-windows, where a tendency to drop, occasioned by the jolting of the car, has to be met and resisted.

My invention consists in the novel construction of a sash locking or supporting cam, which has a gravity-handle to control it automatically, and upon its edge or periphery a shoulder-stop, to prevent the cam from wedging when the sash is raised.

My invention furthermore consists in the combination, with a cam of the peculiar construction referred to, of a flanged sleeve, upon which said cam works, a screw securing said sleeve and cam to the sash, with or without an elastic strip for the cam to impinge upon, all as hereinafter more fully described and definitely claimed.

Referring to the accompanying drawing, A designates a cam of the peculiar form hereinafter more fully described, having an enlarged opening through which passes a sleeve, B, having an annular flange, *b*. C is a wood-screw, passing through the sleeve B into the sash D, firmly binding said sleeve against said sash, and preventing its turning. The distance between the flange *b* and the sash D is a trifle more than the thickness of the cam A, so as to allow the latter to turn easily on the sleeve B. E represents a handle, secured to or forming a part of the cam A, serving, by its gravity, to keep the latter so turned that its shortest radius will be between the sleeve B and the frame F, thus permitting the sash to be raised without opposition or binding on the part of said cam. The downward movement of the sash, however, will cause said cam to roll, its periphery impinging against the frame F, so that its longer radius or enlarged part *a* will become wedged between the sleeve B and the said frame, thus arresting said downward movement, and holding the sash fixedly in position. *a'* shows a shoulder on the periphery of the cam, adjacent to the handle E. The object of this shoulder is to prevent the cam from rolling in such manner as to cause it to wedge, in the manner described, on the upward motion of the sash D. G shows an elastic strip, of sheet-rubber or equivalent material, let into or affixed to the frame F. The effect of this will be to permit the cam to bind more firmly, and to prevent the accidental disengagement of the latter by the jolting of the car.

The operation is briefly as follows: The sash is raised by taking hold of it in the usual manner. On letting go of it the downward motion causes the cam to roll and bind, as already stated. To lower the sash the handle E is turned to assume a vertical position, and held thus until the desired descent has been accomplished.

I do not claim, broadly, as my invention the flanged sleeve which supports the cam, but, conceding its previous use in other connections, merely claim it as an element of a legitimate combination.

What I claim as my invention is—

1. The cam A, provided with a gravity-handle, E, and shoulder-stop *a'*, substantially as shown and described.

2. The combination of the cam A, having a shoulder, *a'*, enlarged part *a*, and gravity-handle E, with the sleeve B, having flange *b* and screw C, with or without the elastic strip G, substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 11th day of March, 1876.

RICHARD HOLCROFT.

Witnesses:
GEO. C. SHELMERDINE,
SAML. J. VAN STAVOREN.