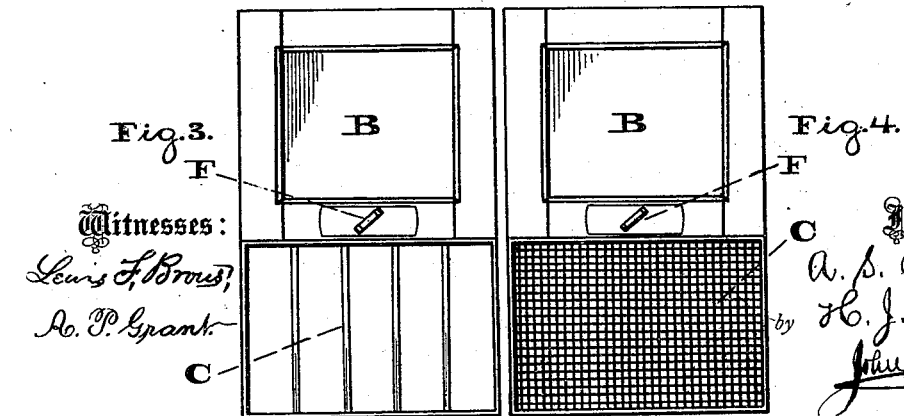
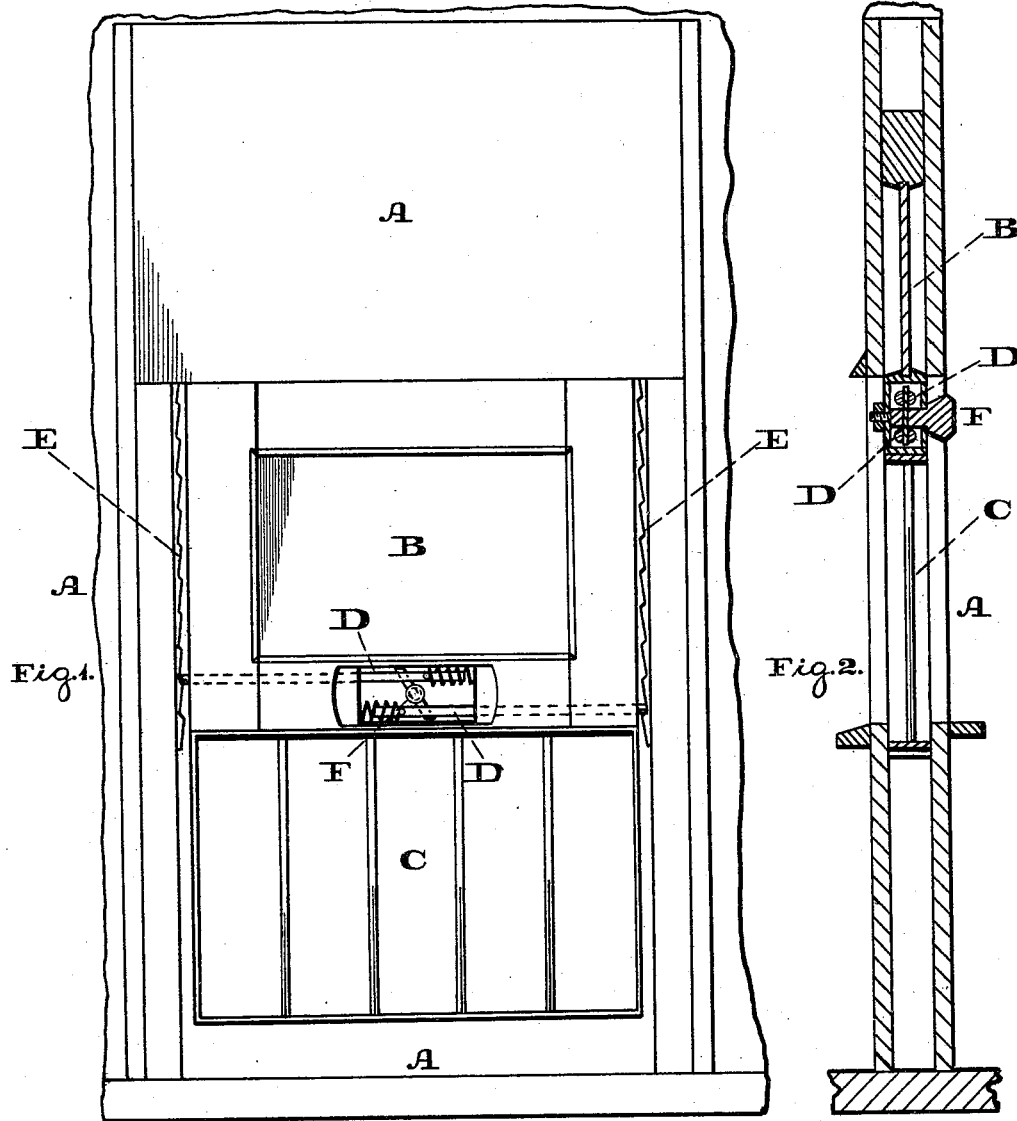


A. S. BARKER & H. J. SHILL, Jr.

CAR-WINDOW.

No. 191,095.

Patented May 22, 1877.



Witnesses:
Lewis F. Brown,
No. P. Grant.

Inventor:
A. S. Barker,
H. J. Shill, Jr.
John A. Diederichsen
Attorney.

UNITED STATES PATENT OFFICE.

ALBERT S. BARKER AND HARRY J. SHILL, JR., OF PHILADELPHIA, PA.

IMPROVEMENT IN CAR-WINDOWS.

Specification forming part of Letters Patent No. 191,095, dated May 22, 1877; application filed April 11, 1877.

To all whom it may concern:

Be it known that we, ALBERT S. BARKER and HARRY J. SHILL, Jr., both of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Car-Windows, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a face view of a window embodying our invention, certain parts being removed. Fig. 2 is a central transverse vertical section thereof. Figs. 3 and 4 are face views of the windows detached from their frames.

Similar letters of reference indicate corresponding parts in the several figures.

Our invention relates to an improvement in car-windows; and it consists of a window or glazed sash, having fixed to it a guard, which may occupy the position of the window, thus protecting or guarding the space created by the displaced window, the passenger not being able to separate the window and guard, whereby he will be prevented from projecting his head or body from the car-window.

As the window carries the additional weight of the guard, the combined window and guard, owing to its tendency to lower, which is increased by the motions of the car, requires to be controlled.

In order, therefore, to hold the window and guard when raised or lowered to partial or entire extent, we provide a lock which is reliable, simple, and easily operated.

Referring to the drawings, A represents the frame of a window of a car or other apartment, and B the glazed sash thereof or window proper, which may be raised or lowered in order to be opened.

To the upper or lower side of the sash B there is connected a guard, C, consisting of bars, rods, gauze, or other open work, so that by raising or lowering the sash the guard and sash will move as one. The sash and guard and frame A are adjusted relatively to each other, so that when the window is opened the guard will be caused to occupy the position of the sash, whereby the space of the displaced window

will be protected by the guard, and the occupant of an apartment, when seated at the window, will be prevented from projecting his head or body dangerously from the window, without, however, having light, air, and view obstructed.

If the guard depends from the sash, the latter, when it is to be opened, will be raised, so as to enter a space in the upper part of the frame A. If the guard is secured to the upper side of the sash, the latter, when it is to be opened, will be lowered so as to enter a space in the lower part of the frame, and in either case the guard will occupy the position of the sash.

In order to lock or hold the sash and guard at desired heights, there are fitted in the side of the sash, adjacent to the connection of the guard, two horizontally-extending rods, D, which slide in opposite directions, and they are adapted to engage with ratchets or toothed bars E, secured to the inner sides of the frame A, they being held there against by springs suitably applied.

In order to release the rods from the ratchets the inner ends of said rods are connected to a button, F, which is journaled to the sash, so that, by turning the button in the proper direction, the rods will be drawn in clear of the ratchets, whereby the sash and guard may be raised and lowered to partial or entire extent, after which, by releasing the button, the rods return to their normal position, engaging with the ratchets, and the sash and guard will again be locked or held.

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

The car-window B and connected guard C, in combination with the sliding rods D, button F, and toothed bars E, of the frame A, substantially as and for the purpose set forth.

ALBERT S. BARKER.
HARRY J. SHILL, JR.

Witnesses:

JOHN A. WIEDERSHEIM,
A. P. GRANT.