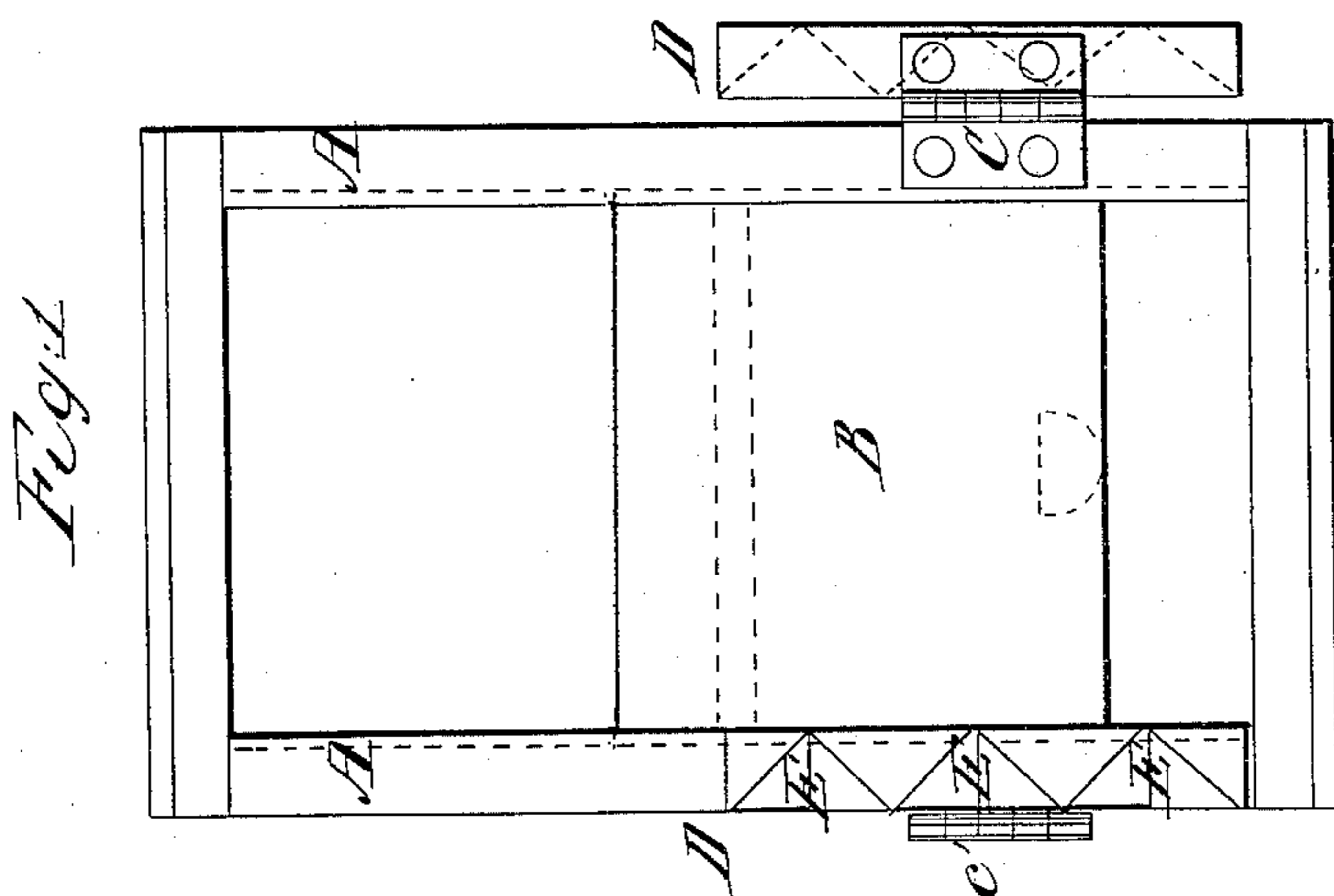
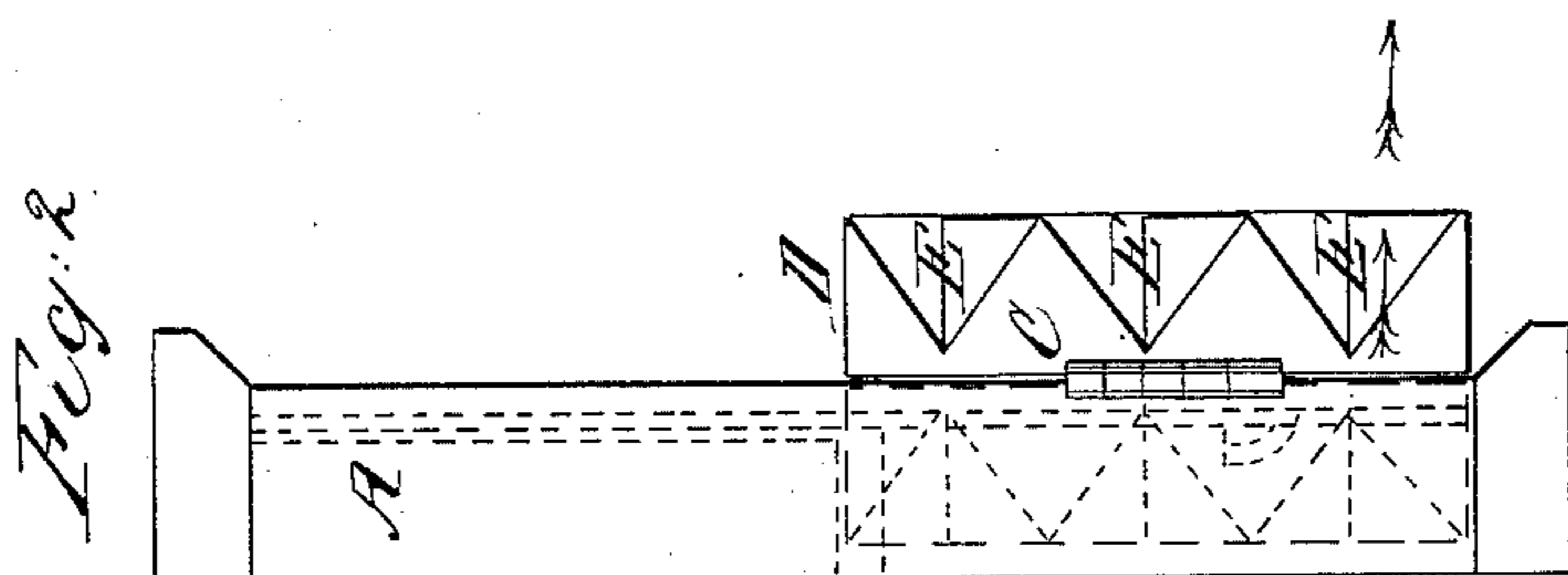


*H. G. Carr,*  
*Car Ventilator,*  
*Nº 65,342,                      Patented June 4, 1867.*



*Witnesses.*  
*C. A. Riggs*  
*J. H. Phillips*

*Inventor*  
*Henry G. Carr*  
*By his Atty*  
*J. Franklin Riggs*

# United States Patent Office.

HENRY G. CARR, OF LEWISTOWN, PENNSYLVANIA.

*Letters Patent No. 65,342, dated June 4, 1867.*

## IMPROVED PROTECTOR FOR CAR-WINDOWS.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, HENRY G. CARR, of Lewistown, Mifflin county, State of Pennsylvania, have invented an improved Car-Window Grooved Protector; and I do hereby declare the following to be an exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification, in which—

Figure 1 represents a front view of a car-window with the protectors, one open and the other closed.

Figure 2 is an end view, exhibiting the grooved protector open, the arrows showing the direction of the wind flying off from the car instead of whirling into the window.

The nature of my invention is a self-acting and self-adjusting hinged strip, that is grooved on the side and attached by a hinge to the sash-frame of a car-window, half the length of the window-frame, and about the length or height of the glass, one on each side of the glass, so that the glass may be hoisted whilst the cars are moving, and the view not be obstructed, whilst the wind, sparks, and dust are driven off and prevented from entering the window, and the protector adjusting itself at right angles with the car, as the cars move forward or backward; the length of the protector being about eighteen inches, and in width about four inches.

A represents the window-frame of a railway car, B the glass, C C the hinges by which the strips are attached to the sash-frame A. D D are the strips or grooved protectors, that, when closed, rest against the car, and when open they stand at right angles with the car, have grooves E E on their sides to conduct the wind, sparks, or dust from the car, and prevent them from entering the window, whilst the window-glass is hoisted, and the foul air in the car passes out, the view not obstructed, and the passengers made more comfortable; and the protectors being grooved, do not offer the same resistance to the moving of the cars as the smooth and square ventilators, or wind-defenders, as they are commonly called and used.

I do not claim a revolving or stationary shutter used heretofore as a ventilator or spark-breaker, but what I claim as my invention, and desire to secure by Letters Patent, is—

The self-acting grooved protector constructed and operating as herein described and for the purposes set forth.

H. G. CARR.

Witnesses:

J. FRANKLIN REIGART,  
JOHN S. HOLLINGSHEAD.