W. RUBY.

Sash-Frame for Carriage-Doors.

No. 213,778. Patented April 1, 1879.

Fig. 1.

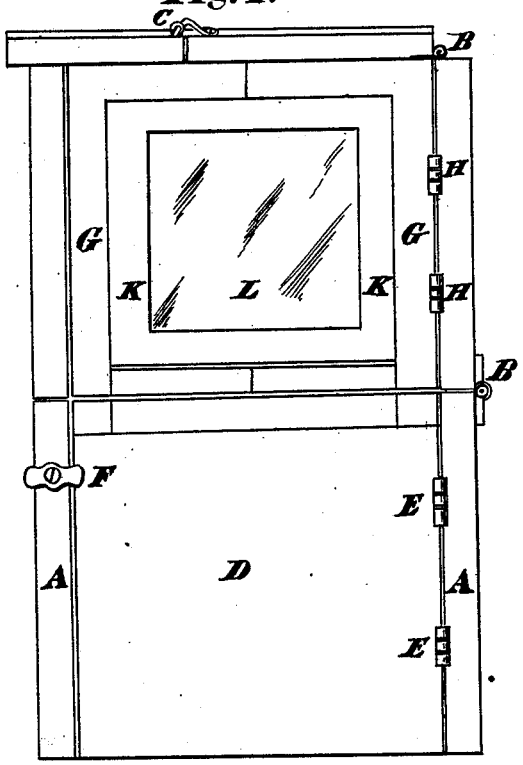
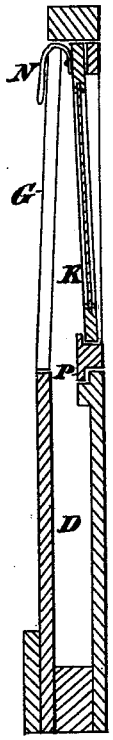


Fig. 2.



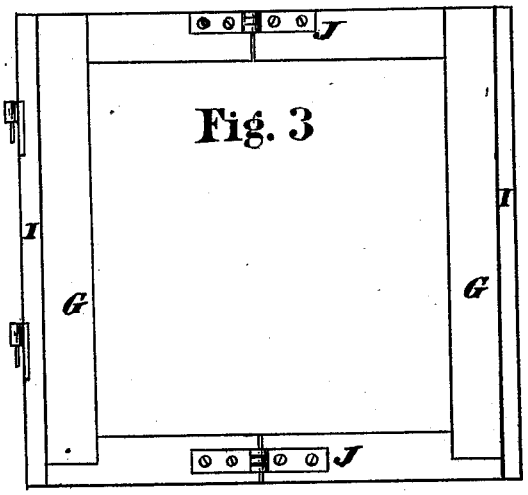


Fig. 3

WITNESSES

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WILLIAM RUBY, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN SASH-FRAMES FOR CARRIAGE-DOORS.

Specification forming part of Letters Patent No. **213,778**, dated April 1, 1879; application filed September 16, 1878.

To all whom it may concern:

Be it known that I, WILLIAM RUBY, of the city of Louisville, in the county of Jefferson and State of Kentucky, have invented a certain new and useful Improvement in Sash-Frames for the Doors of Carriages; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, forming part of this specification, and to the letters of reference marked thereon.

Figure 1 is a plan view of the door, showing the detached folding sash-frame. Fig. 2 is a sectional view, showing the door, the detached frame, and sash. Fig. 3 is a plan view of the folding sash-frame, showing the hinges on the back.

This my invention relates to a certain new and useful improvement in movable folding sash-frames for the doors of folding-top carriages and other similar vehicles. It consists in a frame made separate from the door; but when set in its place and hinged to the door-pillar on a line with the other hinges, it constitutes a part of the door when the body is closed up, but when let down the sash is made to drop down within the lower part of the door, when the frame, which is hinged in the center, is taken out, folded up, and placed under the seat or elsewhere until wanted again.

The object of the invention is to provide a movable folding sash-frame for carriage-doors that will be neat, cheap, and convenient in use, and, by means of its simple construction, when removed will leave no irregular sharp projections or sharp corners on the sides of the door-pillars, the frame being frequently dispensed with, although the body may be closed up. Therefore it becomes necessary that the pillars be smooth when the frame is removed.

This invention will be more fully illustrated in detail in plan views, Figs. 1 and 3, and sectional view, Fig. 2, of the drawings, in which A is the pillar, representing the door-frame of a folding-top carriage, which is made in form as shown in the drawings. B B are the hinges of the folding top, and C is the hook for holding the parts together. D is the lower part of the door, which may be made of any suitable size and form. E E are the hinges, and F is the fastening. G is the folding sash-frame, which is made separate from the door, and is made in form as shown in the drawings, with the parts hinged together in the center, so as to fold up sufficiently small to be placed under the seat when not in use. This frame G is provided with all necessary ribs at the sides to hold the sash, and a small tongue, P, on the under side of the lower end, which enters a corresponding groove or rabbet in the top edge of the door D, by means of which it is held in its place when hinged to the door-pillar on a line with the other hinges, thereby constituting a part of the door D when so adjusted. H H are the hinges of the folding frame G, and I I are the ribs, forming the side grooves for the sash. J J are the hinges for folding it up, and K is the sash, which may be made in any suitable form. L is the glass, and N is the strap for raising the sash.

Having thus fully described the nature and object of this my invention, what I claim as new, and desire to secure by Letters Patent, in a sash-frame for the doors of folding-top carriage, is—

The movable folding sash-frame G G, when hinged together in the center, so as to fold up as above described, in combination with the tongue P, or its equivalent, by which it is held in the door when hinged to the pillar A, substantially as herein described, and for the purpose set forth.

WILLIAM RUBY.

Witnesses:
FRANK PARDON,
C. HEWITT.