E. C. QUIEMBY.
SEPARABLE HINGE FOR STORM SASHES.
(Application filed Aug. 14, 1899.)

FIG. 1.

FIG. 2.

FIG. 3.

FIG. 4.

FIG. 5.

FIG. 6.

INVENTOR
EDWARD C. QUIEMBY

WITNESSES

M.E. Cooiley

By

Paul Hanley
MIS ATTORNEYS.
To all whom it may concern:

Be it known that I, EDWARD C. QUIMBY, of the city of Minneapolis, county of Hennepin, State of Minnesota, have invented a certain new and useful Improvement in Separable Hinges for Storm-Sashes, of which the following is a specification.

This invention relates to improvements in separable hangers or hinges for storm-sash, window-screens, and any other sash or frame that it is desired to secure in a readily-removable manner over a window, door, or other opening.

The objects I have in view are to provide a separable hanger, preferably formed of sheet metal, that can be secured to the outer surface of the sash and the frame to which the sash is to be secured and in which the pivotal or turning point of the hanger will be at some distance in front of the outer surface of the frame and the sash to which the parts of the hanger are secured. Other objects of the invention will appear from the following detailed description.

The invention consists generally in a separable hinge formed of two members both adapted to be secured to the outer surface of the sash and sash-frame, the hook member being provided with a vertical hook portion having a V-shaped recess in its upper surface at some distance in front of the plane of the wall or window-frame and the eye member having an inclined flange provided with a slot adapted to engage the hook portion of the hook member and to be locked thereon.

The invention further consists in the constructions and combinations hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of a separable sash hanger embodying my invention. Figure 2 is a plan view of the same. Figure 3 is a section on line a a of Figure 2. Figure 4 is a side elevation of the hook member of the hanger. Figure 5 is a side elevation of the hanger. Figure 6 is a perspective view of a window-frame and a portion of the storm-sash, showing the manner of putting the two parts of the hanger together in hanging the sash.

In the drawings, 2 represents a portion of a storm-sash. The hanger may, however, be used in connection with a screen or any other removable sash or frame that it is desired to secure to a window or other suitable frame in such manner that it may be readily removed therefrom. The separable hanger consists of two members—the hook member 5 and the eye member 7. These parts are preferably formed of sheet metal, and the hook member is adapted to be secured upon the outside of the window-frame, as shown in Figure 6, while the eye member 7 is adapted to be secured to the outer surface of the sash, as also shown in Figure 6. The hook member 5 is provided with the vertical hook portion 6, which is formed at right angles to the part of the member that is secured to the window-frame. This hook portion of the member is provided with the inclined upper edge 4, the inclined forward or outer edge 8, the substantially horizontal lower edge 10, and preferably with the recess 12 in said lower edge 10. The eye member 7 is provided with an inclined flange 9, offset from the main portion of the member, the upper end of the flange being offset farther than the lower end, as shown in Figures 1 and 5. This flange is provided with the vertical slot 11, adapted to engage the hook portion 6 of the hook member 5. The upper end of the hook portion 6 of the member 5 is preferably provided with the V-shaped recess 14. The distance from the apex of this recess horizontally to the outer surface of the main part of the member 5 is substantially equal to the distance that the upper end of the flange 9 is offset from the main portion of the member 7, so that when the two parts of the hanger are put together the top wall of the slot 11 rests upon the bottom of the depression 14, as shown in Figure 5, and when the sash is closed the two parts of the hanger stand in the position shown by full lines in that figure.

The lower edge 10 of the hook portion of the member 5 forms a lock that prevents the shaking or lifting of the sash in any of its usual positions, and in order to remove the same its lower end must be turned out, so as to bring the lower end of the slot 11 beyond the lower edge 10 of the hook portion of the member 5. The recess 12 permits the sash to
be raised slightly as it is being closed, so as to permit the lower end of the sash to ride over a thin film of ice on the edge of the window-sill. I do not claim herein broadly the separable hanger having the hook portion and eye portion described, as I have claimed the same in a separate application of even date herewith. Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A separable hanger and hinge, comprising a hook member, adapted to be secured to the outside of a window-frame, and an eye member adapted to be secured to the outside of a sash, said eye member being provided with an offset inclined flange, with a slot formed in said flange, substantially as described.

2. A separable hanger and hinge, comprising a hook member adapted to be secured to the outside of a window-frame and having a vertical hook portion, with a V-shaped recess in its upper edge, an eye member having an offset inclined flange, with a slot formed in said flange, the wall at the upper end of said slot being adapted to rest in said recess, for the purpose set forth.

3. The combination, in a separable hanger and hinge, with the hook member 5, adapted to be secured to the outer surface of the window-frame and having the vertical hook portion at right angles to the main portion of the member, with the eye member 7 adapted to be secured to the outer surface of the sash and having the inclined offset flange 9 provided with a slot 11 adapted to engage said hook portion of the other member, substantially as described.

In testimony whereof I have hereunto set my hand, this 10th day of August, 1899, at Minneapolis, Minnesota.

EDWARD C. QUIMBY.

In presence of—

A. C. PAUL,
M. E. GOOLEY.