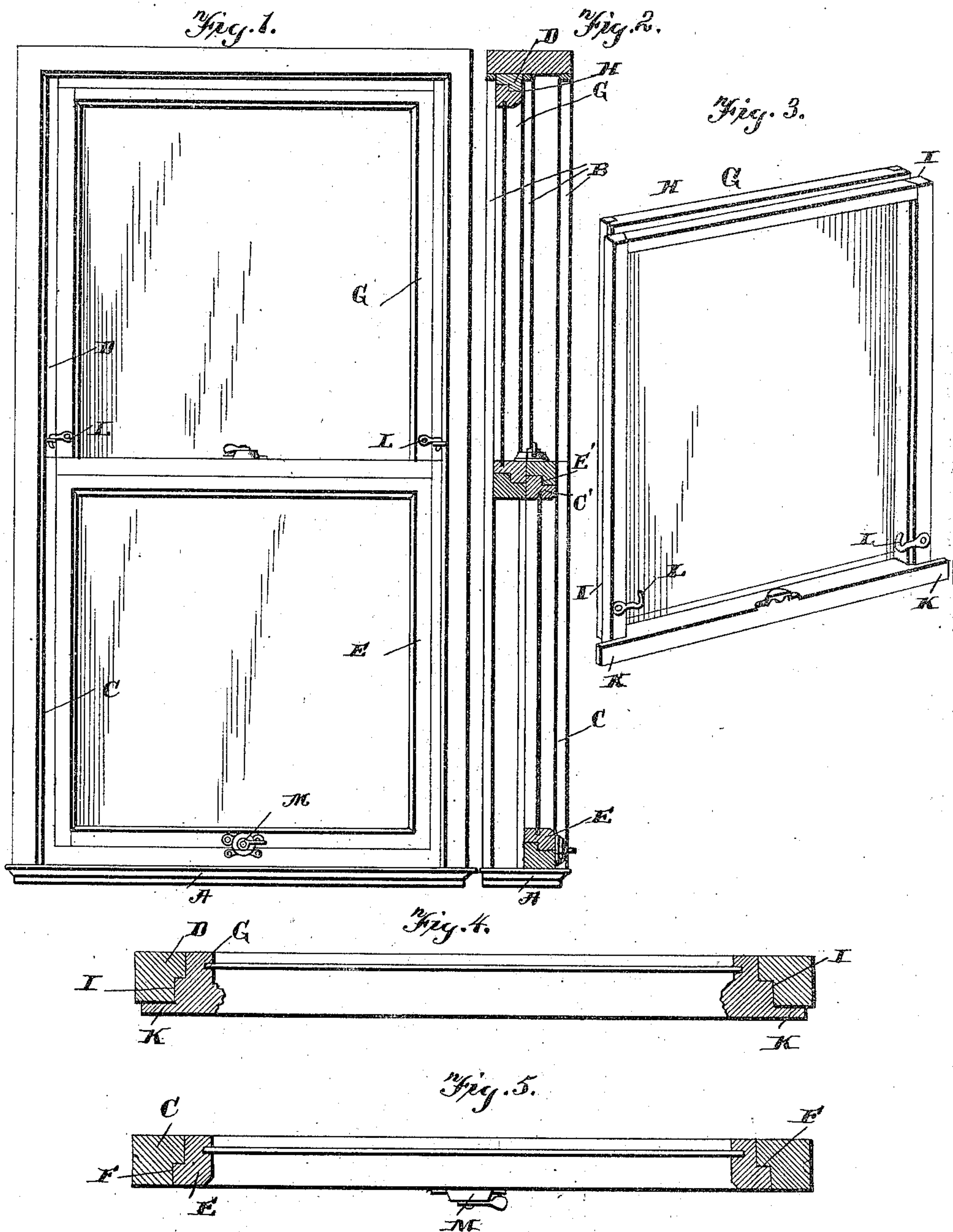


(No Model.)

N. E. MONTGOMERY & J. A. RICE.  
WINDOW SASH.

No. 565,774.

Patented Aug. 11, 1896.



Witnesses  
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# UNITED STATES PATENT OFFICE.

NINA E. MONTGOMERY, OF INDIANAPOLIS, AND JESSE A. RICE, OF LIGONIER, INDIANA.

## WINDOW-SASH.

SPECIFICATION forming part of Letters Patent No. 565,774, dated August 11, 1896.

Application filed April 15, 1896, Serial No. 587,688. (No model.)

*To all whom it may concern:*

Be it known that we, NINA E. MONTGOMERY, of Indianapolis, county of Marion, and JESSE A. RICE, of Ligonier, in the county of Noble and State of Indiana, have invented certain new and useful Improvements in Window-Sashes; and we 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.

This invention pertains to window-sashes, and its object is to provide a removable glass-carrying frame adapted to fit and be secured in the sash proper, whereby the glass may be readily removed from the window for cleaning. The inconvenience and danger of cleaning windows of the usual character, both inside and out, are thereby avoided.

The invention consists in the novel features of construction hereinafter fully described and claimed, and illustrated by the accompanying drawings, in which—

Figure 1 is a front elevation of a window-frame provided with my improved sashes. Fig. 2 is a vertical cross-sectional view of the same. Fig. 3 is an elevation of the upper sash. Fig. 4 is a horizontal cross-sectional view of the lower end of the same. Fig. 5 is a cross-sectional view of the lower sash.

The window-frame A is formed with the usual vertical runways B, in which the lower sash-frame C and upper sash-frame D are adapted to move in the usual manner by means of sash-weights. Fitting snugly within lower sash-frame C is the removable glass-carrying frame E. The front side of top rail C' of frame C forms a rabbet, and fitting behind it is the rabbet E' on the rear side of the top rail of frame E. The positions of the rabbets on the lower rail of the said frames are reversed, so that by inserting the upper end of removable frame E with bead E' behind the rabbet of rail C' the frame E may then be pushed to place in frame C, with both of the horizontal meeting edges of said frame

sealed by the rabbets, as shown in Fig. 2. The stiles of lower frame C, as well as the stiles of the removable frame, are also rabbeted, as shown at F, to make tight joints.

The upper ends of removable frame G and sash-frame D, in which it fits, are rabbeted at H in a manner similar to the corresponding parts of the lower sash, and the same is true of the stiles of the upper sash and frame, as indicated at I. The lower rail of removable frame G is also rabbeted to fit the rabbeted lower rail of frame D, and in addition to this said rail at its front side is formed with projecting extremities K, which make a tight fit between the meeting-rails of the sashes when the window is closed. Frame G may be conveniently held in sash-frame B by hooks L, while for securing the removable frame in the lower sash we provide the fastening device M. These fastenings form no part of our invention, and any form of securing device may be employed that may be desired.

With window-sashes constructed as herein shown and described, the glass and frame in which it fits may be readily removed for cleaning, while when in place perfectly-tight seams or joints are formed, and the same are securely held from displacement.

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

1. The combination of a sash-frame, the oppositely-arranged rabbets on the inner surfaces of the rails of said frames, the rabbets on the stiles of said frames, the removable glass-carrying frame adapted to fit within the sash-frame, the oppositely-arranged rabbets upon the outer sides of the rails of said removable frame, and the rabbets upon the outer sides of the stiles of said removable frame, the respective rabbets of the sash-frame and removable frame being adapted to coact in the manner and for the purpose, substantially as herein shown and described.

2. The combination of the lower sash, the upper sash-frame D, the removable glass-carrying frame adapted to fit within said frame D,



the lower rail of said removable frame provided upon its inner side with the projected extremities, whereby the space between the meeting-rails of the respective sashes is filled,  
5 substantially as shown and described.

3. The combination of the lower and upper sashes the removable glass-carrying frame adapted to fit in the said upper sash, the lower rail of said frame forming the meeting-  
10 rail for the upper sash, the ends of the said frame-rail being reduced as at K and extended so as to project over the stiles of the upper sash and fill the space therebetween and

the meeting-rail of the lower sash, substantially as shown and described. 15

In testimony whereof we affix our signatures in presence of two witnesses.

NINA E. MONTGOMERY.

JESSE A. RICE.

Witnesses for Nina E. Montgomery:

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WILLIAM G. GARDNER,

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