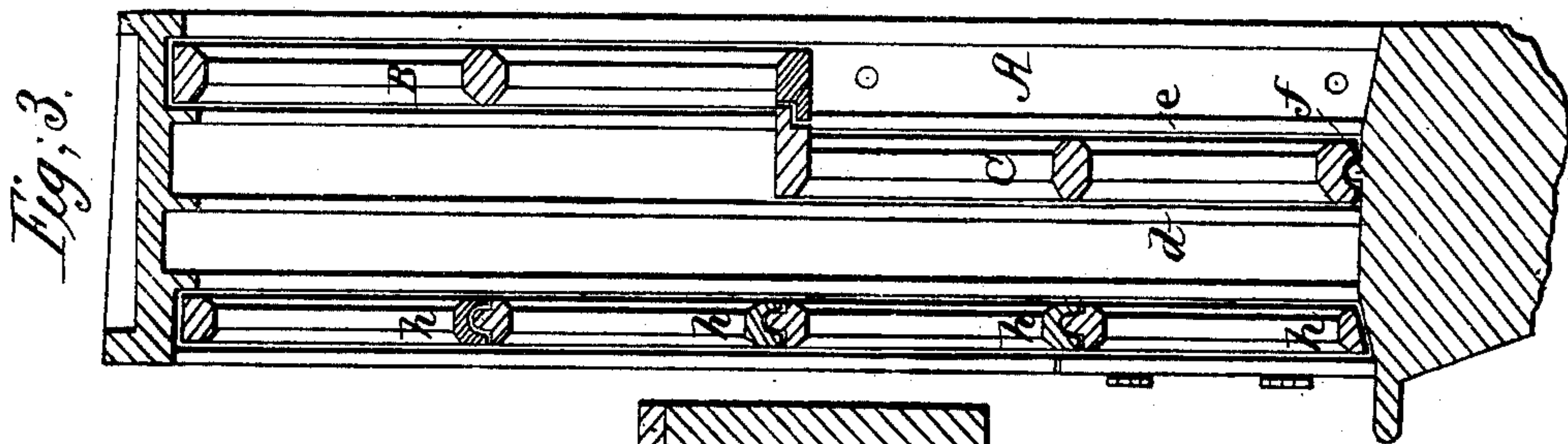


*Stephen, Earl of Mount Cashell.*

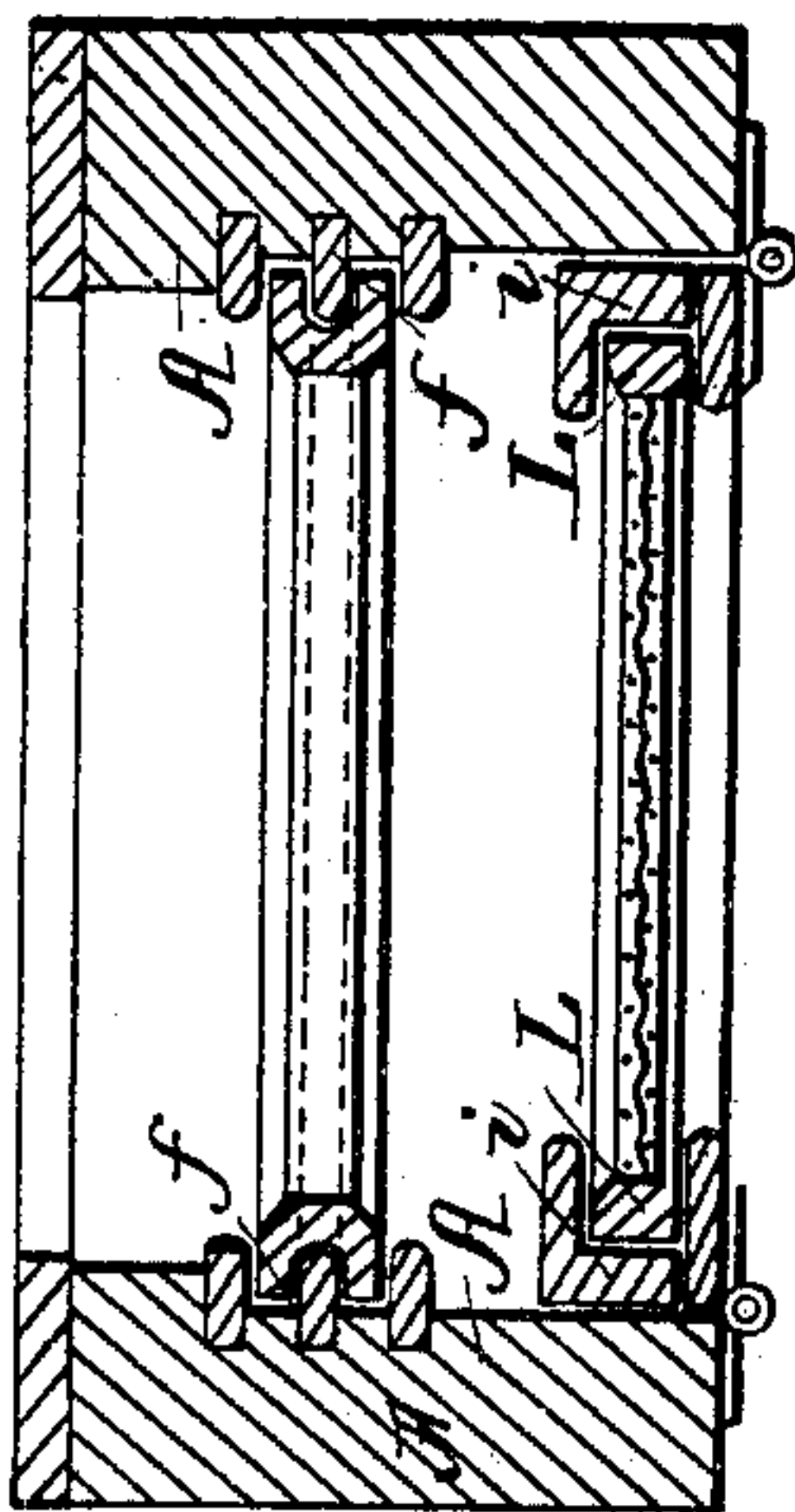
*Window.*

*N<sup>o</sup> 94,331.*

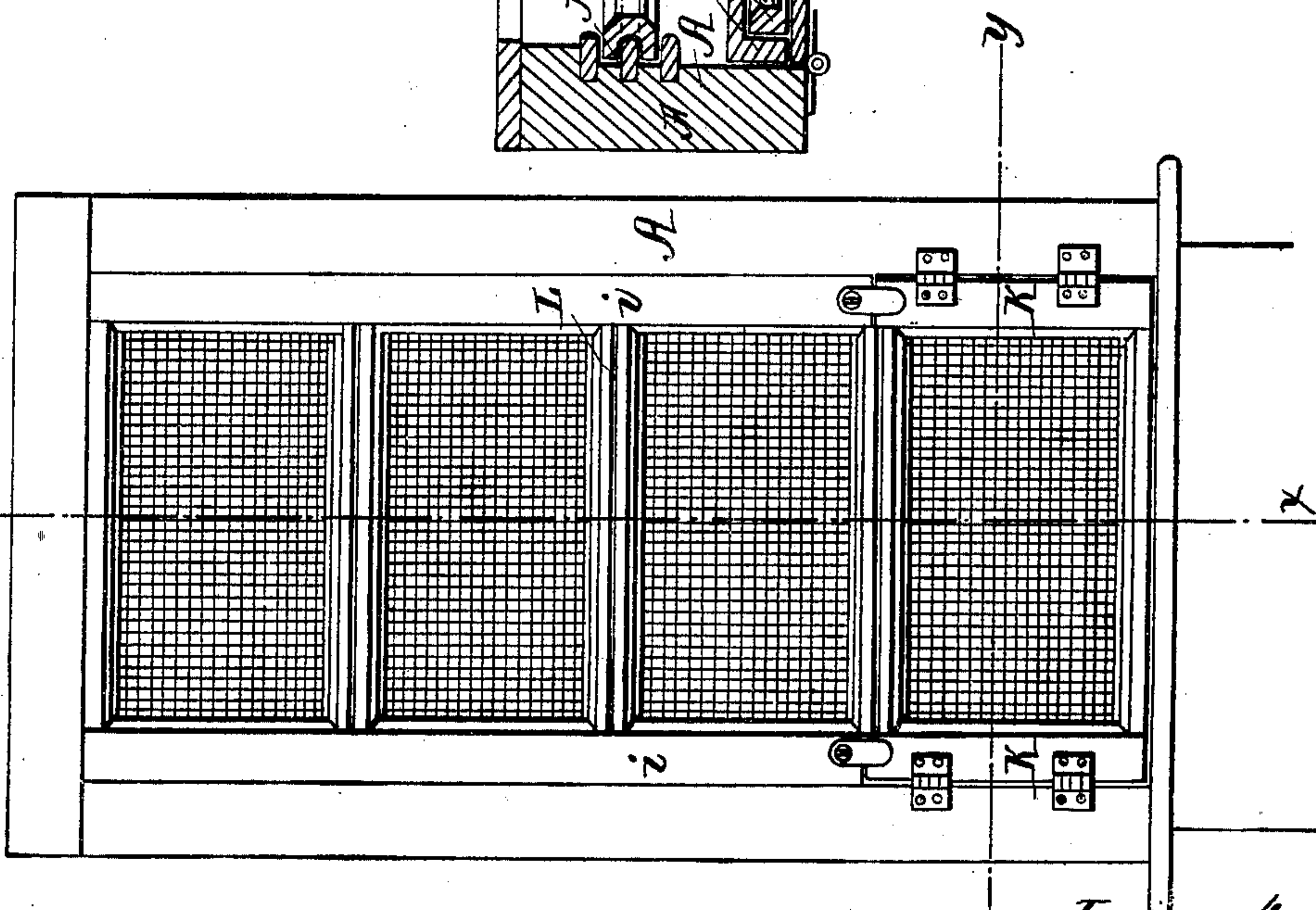
*Patented Aug. 31, 1869.*



*Fig. 2.*



*Fig. 1.*



*Witnesses;  
H. A. Morgan  
Jas. E. Brooks*

*Inventor;  
Stephen,  
Earl of Mount Cashell  
per Wm. J. Patterson  
Attorneys*



# United States Patent Office.

STEPHEN, EARL OF MOUNT CASHELL, OF MOORE PARK, IRELAND.

Letters Patent No. 94,331, dated August 31, 1869.

## IMPROVED DOUBLE WINDOW.

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, STEPHEN, EARL OF MOUNT CASHELL, of Moore Park, in the county of Cork, Ireland, have invented a new and useful Improvement in Double Windows; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in the windows of dwelling-houses and public buildings, whereby the same are made much more effective in excluding cold air in the winter-season, as well as insects and reptiles in the summer-season, than the ordinary window; and

The invention consists in providing the window with two sets of glazed sashes and one set of gauze-sashes, and also in the manner in which the window-frame and the rails of the sashes are formed and fitted together, and in the provision made for removing the inside sashes and excluding insects and reptiles of all kinds, as will be hereinafter more fully described.

Figure 1 is an inside front elevation of the window, shown as a summer-window, with the gauze or netting-sashes properly arranged in the place of the glazed winter-sashes.

Figure 2 is a horizontal section of fig. 1, through the line *y y*.

Figure 3 is a vertical section of the window, through the line *x x*.

Figure 4 is a detached view of the rabbeted casing, by which the winter-sashes and summer-screens are secured to the window-frame.

Similar letters of reference indicate corresponding parts.

A represents the window-frame, in which the outside sashes B and C are fitted in the ordinary manner, by projecting bead-casings *d* and *e*, with an additional projecting bead-casing, *f*, for the lower sash C.

This casing *f* is not only made to project into the lower rail of the sash C, but into the side-pieces of the sash, as seen in the cross-section, fig. 2, thus forming a double joint, and greatly adding to the security of the window and its efficiency for the purpose intended.

The winter-sashes are four in number, and the joints

between them (when they are placed in the frame) are secured by tongue-and-groove joints, as seen in the drawing.

The winter-sashes are marked *h*, and they are secured in the frame by rabbeted casings upon each side, marked *i*, a cross-section of which casing is seen in fig. 4.

The lower front portion of this rabbeted casing is hinged to the frame or face-casing of the window, as seen at *k*, so that the sashes *h*, as well as the screens J, can be put in or taken from the window at pleasure, without removing the casing.

The detached figure of the rabbeted casing *i* is a cross-section of it above the hinged portion *k*.

L represents the screen or gauze-frames. These frames or sashes are of the same size as the sashes *h*, and fit into the casings *i* in the same manner.

By the use of the casings *i*, it will be seen that the winter-sashes may be readily applied to the ordinary window, without trouble or expense in cutting or nailing on stop-casings.

The utility of a double window, in excluding frost and dampness, is well known. The body of air confined between the two sets of sashes is the best of non-conductors, while the grooved joints render the entrance of currents of cold air in winter from without impossible.

It will be seen that in this arrangement there are in fact three windows, each of which is admirably adapted for the purpose for which it is intended.

I claim as new, and desire to secure by Letters Patent—

1. The combination of the outside sashes B and C, the inside or winter-sashes *h*, and the screen-sashes L, with the frame A, substantially as shown and described.

2. In combination with the ordinary window, the inner or winter-window, when the sashes are made in three or more parts, with their rails tongued and grooved together, substantially as described.

STEPHEN, EARL OF MOUNT CASHELL.

Witnesses:

MICHAEL N. MAGAN,  
JOHN GODBOLD.