

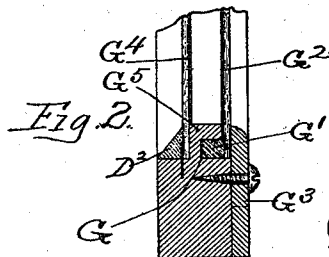
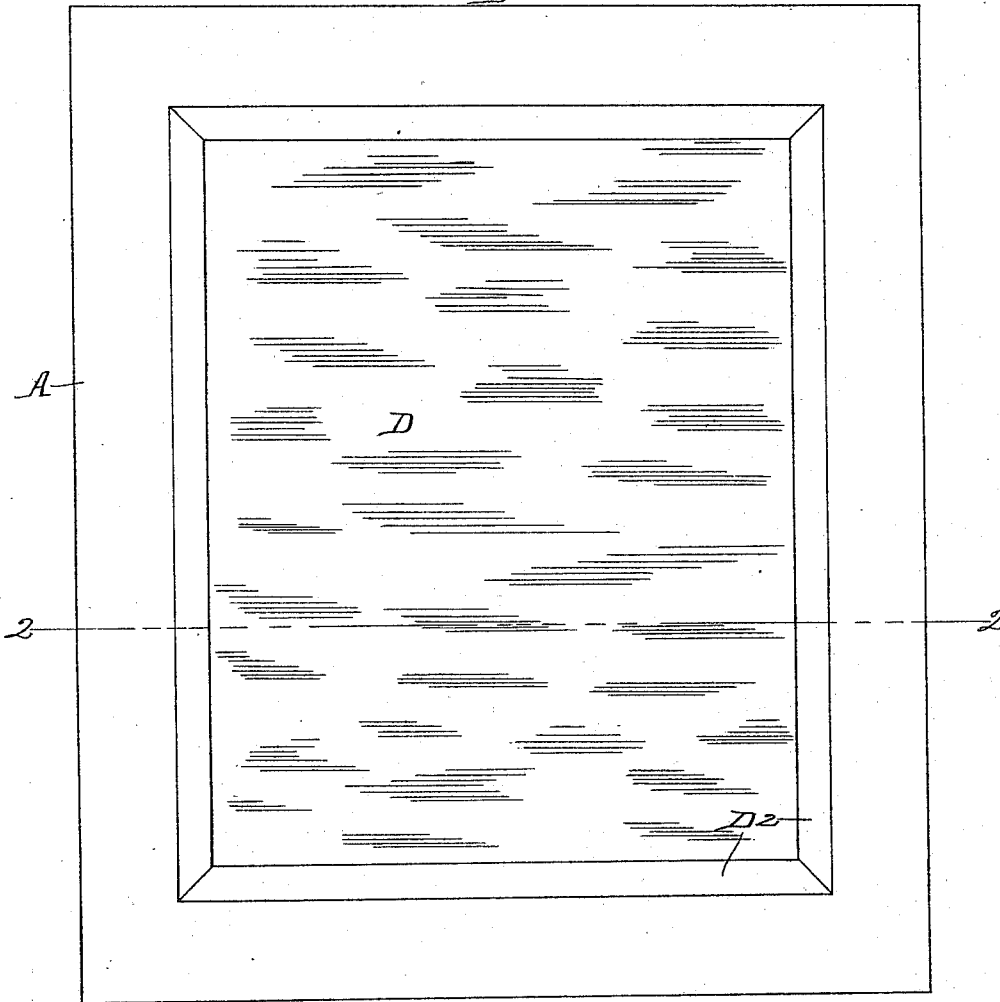
(No Model.)

W. W. WILBUR.
WINDOW.

No. 579,460.

Patented Mar. 23, 1897.

Fig. 1.



Witnesses:
G. H. Curtis
J. L. Curtis

Inventor:
William W. Wilbur,
By *Mosher & Curtis attys.*

UNITED STATES PATENT OFFICE.

WILLIAM W. WILBUR, OF TROY, NEW YORK.

WINDOW.

SPECIFICATION forming part of Letters Patent No. 579,460, dated March 23, 1897.

Application filed June 1, 1896. Serial No. 593,944. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. WILBUR, a citizen of the United States, residing at Troy, county of Rensselaer, and State of New York, have invented certain new and useful Improvements in Windows, of which the following is a specification.

The invention relates to such improvements; and it consists of the novel construction and combination of parts hereinafter described and subsequently claimed.

Reference may be had to the accompanying drawings, and the letters of reference marked thereon, which form a part of this specification.

Similar letters refer to similar parts in both figures therein.

Figure 1 of the drawings is a front elevation of my improved window. Fig. 2 is a cross-sectional view of the frames of the same.

My invention comprises two panes of glass each having a supporting-frame, an interposed packing, and means for compressing the packing between the frames, so that the space inclosed between the two panes of glass and their frames shall be approximately airtight.

The glass-supporting frames may be of any known form.

I have shown one pane of glass, G^1 , supported by an ordinary form of sash-frame having the usual flange or tongue G^2 , against which the glass is held by brads and putty D^2 in the usual manner. The other pane of glass, G^2 , is provided with a frame G^3 , which may be in the form of a molding-strip, as shown.

The packing-strip G' , which may be made of rubber; is inserted partly in a groove G , cut in the face of one of the frames, and preferably in position to bear upon the pane of glass G^1 , so that when compressed between the frames the packing will form an air-tight joint around the edge of the pane G^1 .

The two frames are connected by screws,

by means of which they may be drawn together to compress the packing.

I am thus able to provide an air-tight chamber between the two panes of glass which forms a comparatively good non-conductor of heat, whereby the moisture within a room provided with my improved windows is not readily deposited upon the inner comparatively warm pane and cannot reach the outer and comparatively cool pane.

I am thus able to provide a window that will not only prevent the accumulation on the glass of frost in very cold weather or visible moisture in milder weather, but will greatly diminish the loss of heat in an artificially-heated room provided with my improved window.

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

1. The combination with a window-sash frame and a pane of glass tightly secured therein, of a separate pane of glass and glass-supporting frame, a strip of packing inserted partially within a groove in one of the frames, and means for compressing the packing between the frames, substantially as described.

2. The combination with a window-sash frame having an inwardly-projecting tongue, provided on one side with a packing-groove, of a strip of packing inserted partially within the groove, a pane of glass bearing along its edges upon the projecting strip of packing, means for holding the glass tightly against the packing, and a similar pane of glass bearing along its edges upon the opposite side of the tongue, and means for holding such glass in engagement with the tongue substantially as described.

In testimony whereof I have hereunto set my hand this 25th day of May, 1896.

W. W. WILBUR.

Witnesses:

FRANK C. CURTIS,
THOMAS H. GUY.