

(No Model.)

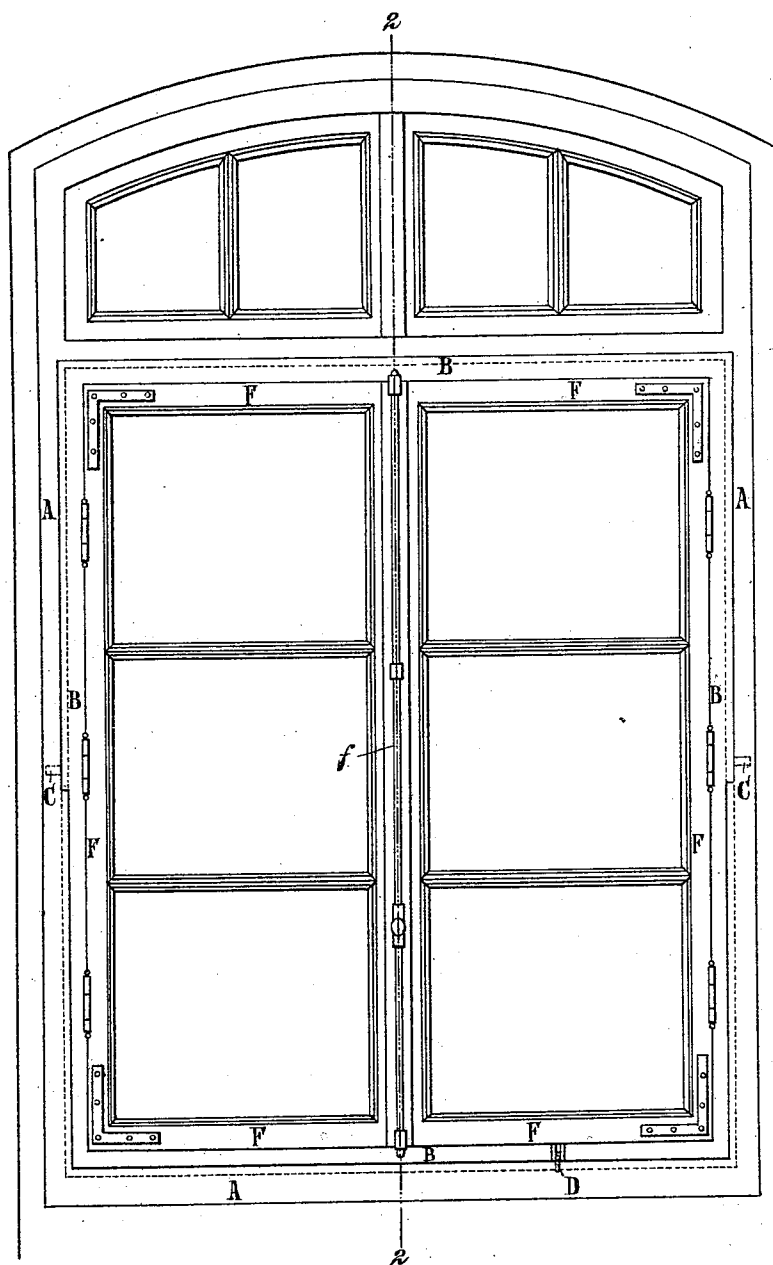
2 Sheets—Sheet 1.

J. J. EYRAUD.
WINDOW.

No. 470,114.

Patented Mar. 1, 1892.

FIG. 1.



Witnesses:

E. M. Clark
G. Sedgwick

Inventor:

J. J. Eyraud
By *Munn & Co*
Attorneys

(No Model.)

2 Sheets—Sheet 2.

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WINDOW.

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FIG. 2.

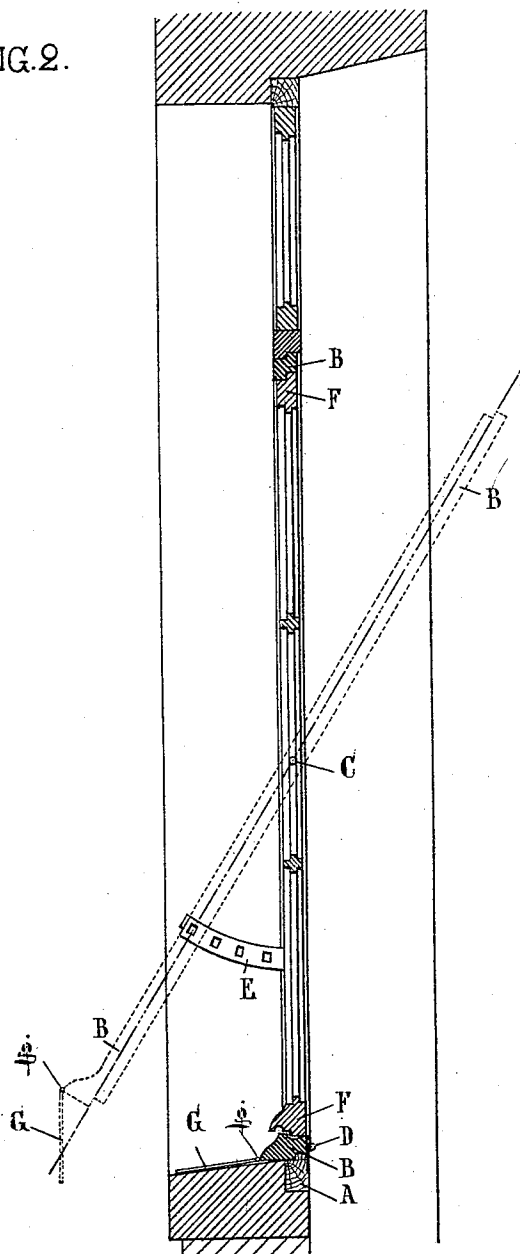
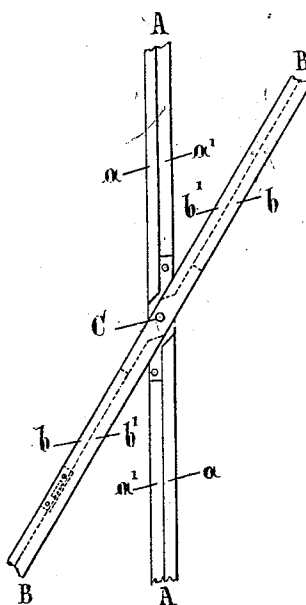


FIG. 3.



Witnesses:

C. M. Clark
C. Sedgwick

Inventor:

J. J. Eyraud
By Munn & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

JEAN JOSEPH EYRAUD, OF PARIS, FRANCE.

WINDOW.

SPECIFICATION forming part of Letters Patent No. 470,114, dated March 1, 1892.

Application filed December 5, 1891. Serial No. 414,179. (No model.) Patented in France July 4, 1891, No. 214,635.

To all whom it may concern:

Be it known that I, JEAN JOSEPH EYRAUD, of Paris, Department of Seine, in the Republic of France, have invented certain new and useful Improvements in Windows; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to improvements in windows, (for which I have received a patent in France, No. 214,635, filed July 4, 1891, delivered October 28, 1891;) and the object of my invention is to produce a simple form of window which may be swung open in the usual way and which can also be tilted or rocked, so as to allow the air to pass above and below it. The advantage of this arrangement is that it suppresses all the inconveniences inherent in each of these classes of windows when taken by itself. In fact, with the folding windows it is impossible the greater part of the time to ventilate the room without creating drafts, which are absolutely injurious to the health of the persons in the room. In the second place, when the swinging sashes of the window are open those outside can see into the room so easily that those inside have no privacy. Finally, if it rains and is windy the rain enters the room. All these inconveniences are overcome by the rocking window.

To this end my invention consists in certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of the window in closed position. Fig. 2 is a vertical section of the same on the line 2 2 in Fig. 1, and Fig. 3 is a broken detail view showing the arrangement of the tilting part of the window-frame.

The frame A is fixed in the building in the usual manner, and the frame may be of any

ordinary construction. The inner frame B is pivoted in the frame A so as to tilt on the central side pivots C, which pivots, as shown in the drawings, are fixed in the frame B and lodge in recesses in the frame A; but it is obvious that the arrangement may be reversed, if desired.

The frame B carries the horizontally-swinging sashes F, which are hinged to the frame at the sides, and which meet in the middle, where they are secured by a common form of Spanish bolt *f*, although any other suitable fastening device may be substituted. It will thus be seen that the frame B may swing vertically and that the sashes F may swing in the usual way when the frame B is closed. The frame B may be held closed by a sliding bolt D, which fits a recess of the frame, and which is secured in the base of the frame A.

At one side of the window is a rack E, which is secured to the building adjacent to the window, and by means of this rack the frame B may be held in a desired position. I may adopt other arrangements for this purpose without departing from the spirit of my invention. For instance, an iron rod provided with holes at intervals to engage a hook may be used instead of the rack, the rod being in fact the ordinary transom-fixture.

To assure tightness between the frames A and B, I have arranged on each of them a groove *a' b'* and a tongue *a b*, the said tongue and groove above the pivot being arranged opposite to those below the pivot, so that when the window is not to swing the rabbeted parts will strike one another and hold the two frames in closed position. This arrangement has the further advantage of preventing the frame B from swinging in both directions, which might in many cases prove inconvenient.

To the sill of the movable frame B is pivoted or hinged a plate or shield G, the plate being secured to the frame by means of a hinge *g*, which permits it to incline downward when the frame B is open, thus preventing currents of air from being formed.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A window comprising a vertically-swing-

ing frame and horizontally-swinging sashes hinged to the frame, substantially as described.

2. A window comprising a vertically-swing-
5 ing frame, and horizontally-swinging sashes hinged to the frame, and a fastening device for fixing the position of the frame, substantially as described.

3. The combination, with the tilting frame,

of a shield hinged to the sill thereof, substantially as described.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JEAN JOSEPH EYRAUD.

Witnesses:

ROBT. M. HOOPER,
R. BERNHARD.