

B. J. Williams,

Window Screen.

No. 102,900.

Patented May 10, 1870.

Fig. 1.

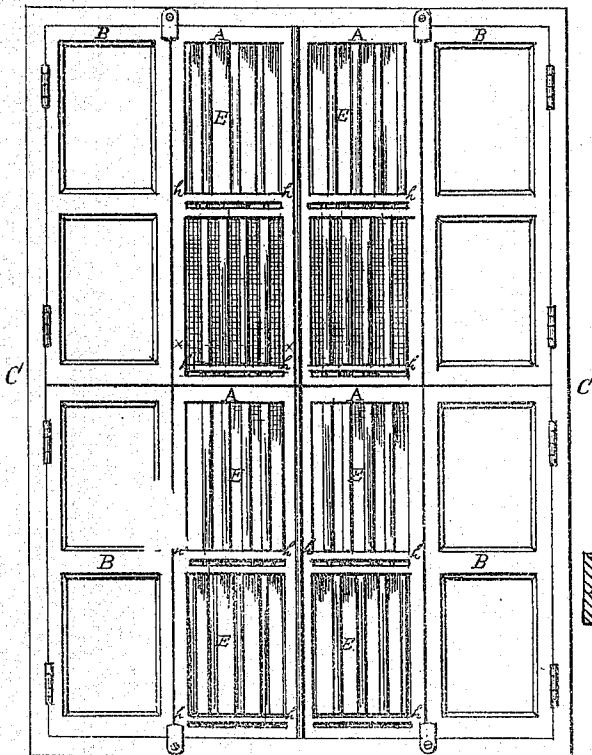


Fig. 3.

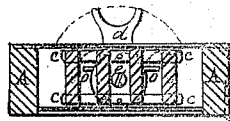
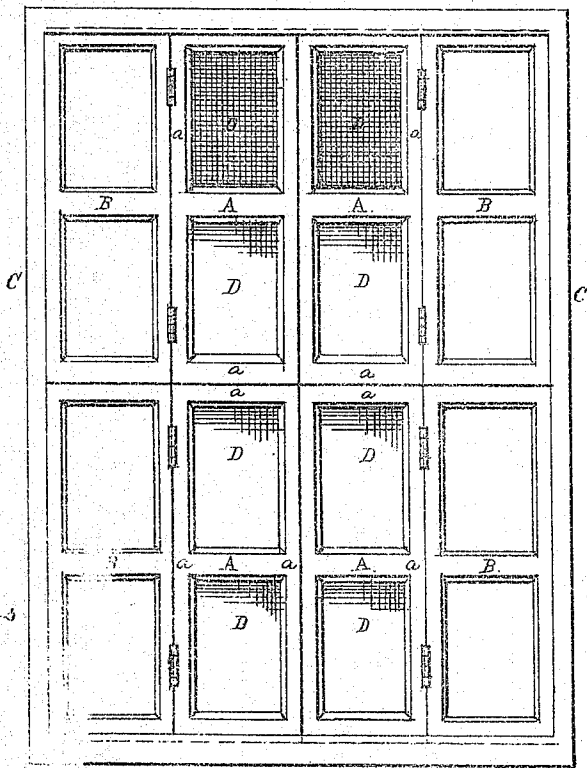


Fig. 2.



Witnesses

T. J. Burris
H. W. Rade

Inventor

Benjamin J. Williams
By his attorney
G. B. J. J.

United States Patent Office.

BENJAMIN J. WILLIAMS, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 102,900, dated May 10, 1870.

IMPROVED BLIND, SCREEN, AND SHUTTER.

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, BENJAMIN J. WILLIAMS, of the city and county of Philadelphia and State of Pennsylvania, have invented a new improved Venetian Blind, Wire Screen, and Inside Folding Shutter combined; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings making a part of this specification.

Figure 1 is a front or inside view.

Figure 2 is a back or outside view.

Figure 3 is a transverse sectional view, in detail, of Venetian blind, as indicated by the line *x x* of fig. 1, showing method of operating the slats.

Like letters in the figures of the drawings indicate like parts.

This invention relates to a Venetian blind and inside folding shutter, provided with a wire screen or screens; and consists in combining therewith certain devices for operating the slats, as will be hereafter explained.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

The Venetian blinds *A* and folding-shutters *B* are hinged together and hung to the frame *C*, as ordinarily.

D are the wire screens, which are placed over the slats on the outside or back of the blind, and are secured to the framing thereof by pieces, *a*, suitably beaded and joined together around and over the edge of the wire, being glued and nailed with cleat nails to the stiles and rails forming the frame of the blind, or in any suitable manner that will secure them without detracting from the finish of the blind.

E are the slats, which are arranged vertically to avoid the dust settling on them, being pivoted to the rail above, as ordinarily, and below to two sliding bars *e e*.

These bars are attached to the lever *d* by pivots, the lever being attached to the center of the rail between the stiles by a pivot-screw, *e*.

A piece, *h*, is let in across the stiles a little above the rail, forming a slot in which the lever works. This piece and the piece on the back of the blind form the sides between which the bars work.

This method of operating the slats is intended to be a simplification of the devices patented for accomplishing the same thing, and is believed to be more practical in its adaptation for the purpose. The opening and closing of the slats for regulating the admission of air and light being done as is obvious by working the lever laterally in the slot.

The bottom rails are provided with openings *o*, to let the dust out that would otherwise accumulate thereon, and interfere with the bars sliding or working freely.

It, of course, will be understood that these blinds are to be constructed and provided with the wire screens, according to the room or place designed to use them; as, for instance, in the windows of a bedroom they may be so constructed as to make the room private, and yet afford ventilation and light and exclude insects at the same time, or the panel shutters may be dispensed with and a full blind and screen used, or where full panel shutters are used in a hall and staircase window without blinds, the upper panels of the lower section may be left out and slats with screens substituted in lieu thereof, and so on.

If desirable, for the purpose of giving a clear and unobstructed view of the street to the person sitting at the window, the blinds of the lower section may be so hinged to the panel shutters on either side, as that they may be swung open without opening the shutters, the person having the benefit of a window-screen with sash hoisted.

Having thus fully described my invention,

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

The sliding bars *e e* and lever *d*, as arranged and pivoted to the rail for operating the slats, in combination with a Venetian blind and inside folding shutter, provided with wire screens *D* and openings *o*, substantially as described.

As evidence that I claim the foregoing as my invention, I have hereunto set my hand and seal in the presence of two witnesses.

BENJN. J. WILLIAMS. [L. S.]

Witnesses:

GEO. C. BARBER,
EDWARD SELLERS.