

(No Model.)

O. C. VELIE.
BLIND ADJUSTER.

No. 256,254.

Patented Apr. 11, 1882

Fig. 1.

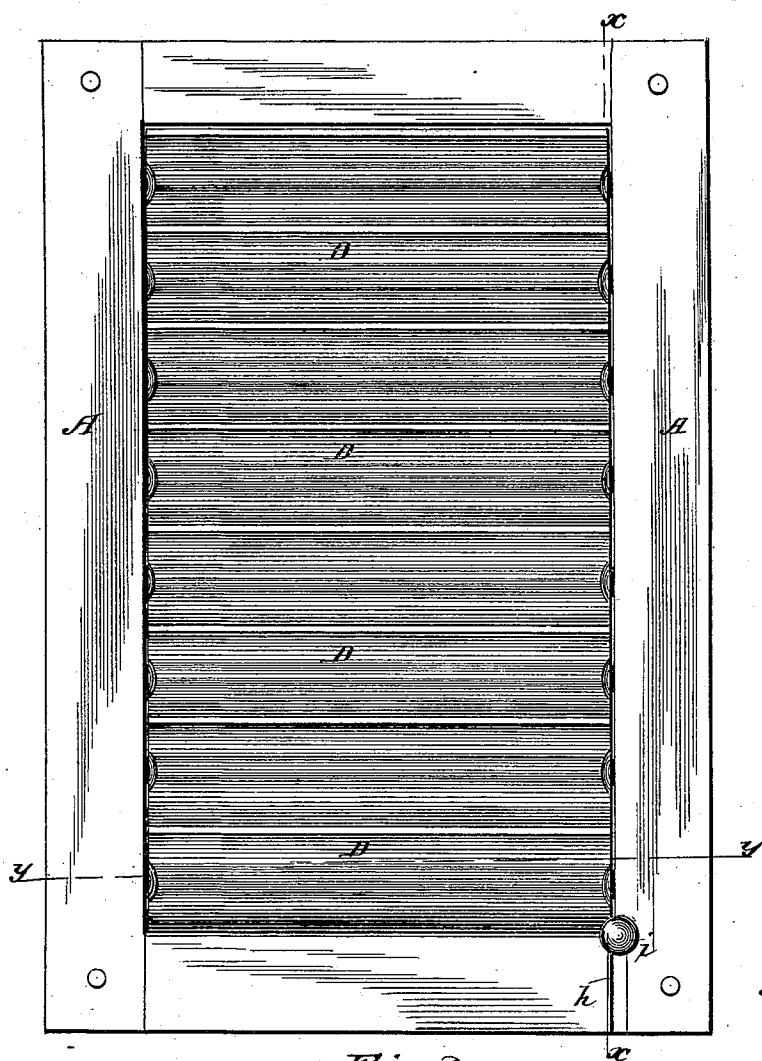


Fig. 2.

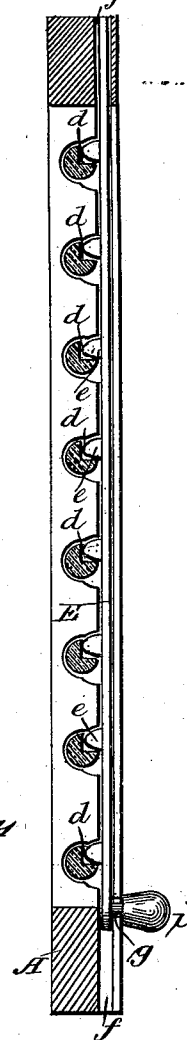


Fig. 3.

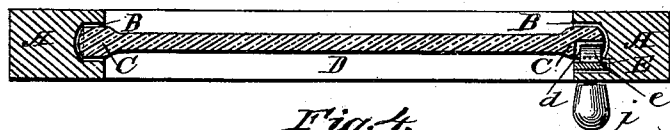
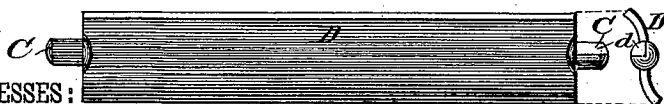


Fig. 4.



WITNESSES:

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ORVEL C. VELIE, OF CORNING, NEW YORK, ASSIGNOR OF ONE-HALF TO
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BLIND-ADJUSTER.

SPECIFICATION forming part of Letters Patent No. 256,254, dated April 11, 1882.

Application filed February 10, 1882. (No model.)

To all whom it may concern:

Be it known that I, ORVEL C. VELIE, of Corning, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Blind-Adjusters; 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 certain new and useful improvements in mechanism for operating the slats of blinds, by which the ordinary rod connecting the slats may be dispensed with, whereby I am enabled to use glass in the manufacture of the slats, as well as wood or metal; and to this end the invention consists in novel features of construction and combination and arrangement of parts, all as will be hereinafter fully described, and set forth in the claims hereto annexed.

Referring to the accompanying drawings, Figure 1 represents an elevation of the blind; Fig. 2, a vertical section through the line *x x* of Fig. 1. Fig. 3 is a cross-section through the line *y y*, Fig. 1; Fig. 4, detailed front and end view of one of the slats.

In the drawings, A represents the stiles or frames of an ordinary Venetian blind, having mortises B in the inner sides of the vertical stiles for the tenons C on the blind-slats D. The tenons C at one end of all the slats are provided with grooves *d*, which correspond with the shape of a series of lugs or teeth, *e*, on a bar, E, arranged in a recess in one of the stiles over the mortises B, and which lugs or teeth are so arranged on the bar E that one lug or tooth will fit in the grooved tenon of each slat. The recess *f* for the reception of the bar E is made a short distance longer than said bar, in order that said bar may have the necessary vertical play in the operation of opening and closing the slats. The lower end of the bar E is provided with a stud, *g*, projecting out through a vertical slot, *h*, in the stile, and which stud is provided with a knob,

i, by means of which the bar may be operated. By having the tenons of the slats at one and the same ends grooved as shown, and the lugs or teeth of the vertically-movable bar engaging therewith, the slats are all operated simultaneously, and thereby respectively opened or closed in the downward or upward movement of said bar.

By the above-described construction a blind-slat adjuster is perfected which is at once simple in operation and not liable to get out of order.

In the use of wooden slats metal tenons may be used, or wooden tenons having the grooves therein lined with sheet metal to obviate wear.

In the use of metal, glass, or similar material for slats the tenons may be formed integral therewith and the grooves therein in the process of manufacturing the same.

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

1. In a blind-slat adjuster, the combination of the slats having grooved tenons at one end and a vertically-movable bar having a series of lugs or teeth adapted to engage said grooved tenons, whereby the slats may be simultaneously operated by the movement of said bar, substantially in the manner herein shown and described.

2. The combination of the blind-frame having mortises B and a recess, *f*, and slot *h*, the slats D, having tenons C, provided with grooves *d* at one end, and a vertically-movable bar, E, having lugs or teeth *e*, adapted to engage said grooved tenons, and a projecting stud, *g*, provided with a knob, *i*, the several parts constructed and arranged relatively to each other substantially in the manner as and for the purpose herein shown and described.

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

ORVEL C. VELIE.

Witnesses:

JOHN L. DEMAREST,
E. C. POND.