2 Sheets--Sheet 1.

W. STRUNK.

Blind-Slat Operator.

No. 169,127. Patented Oct. 26, 1875.

FIG. 1.

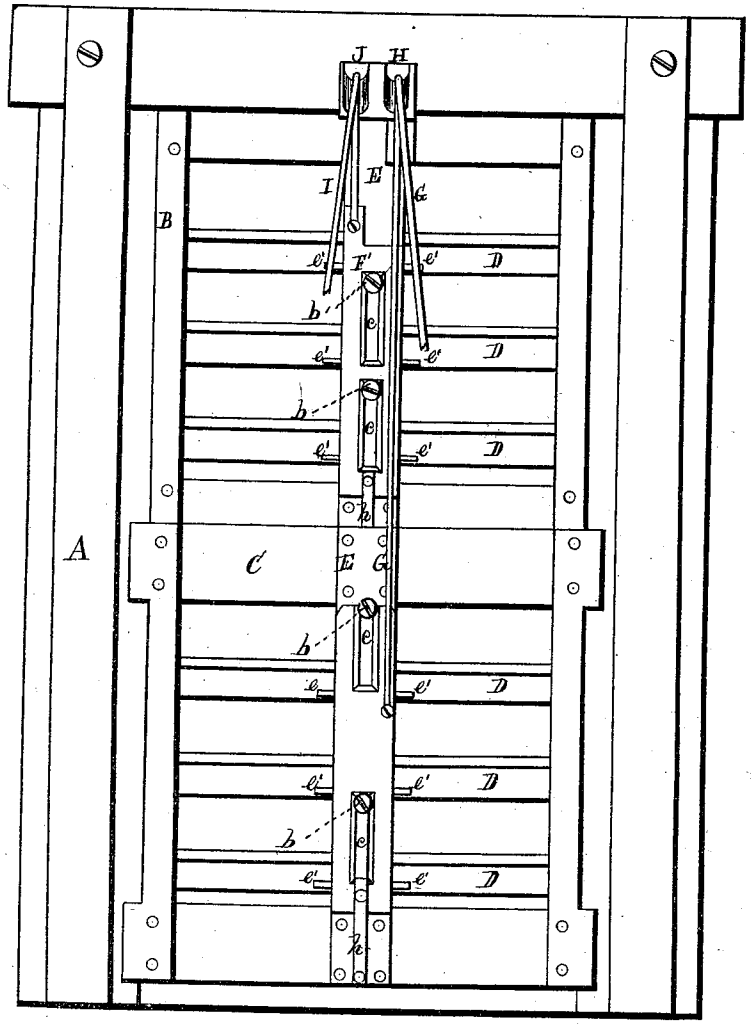


FIG. 2.

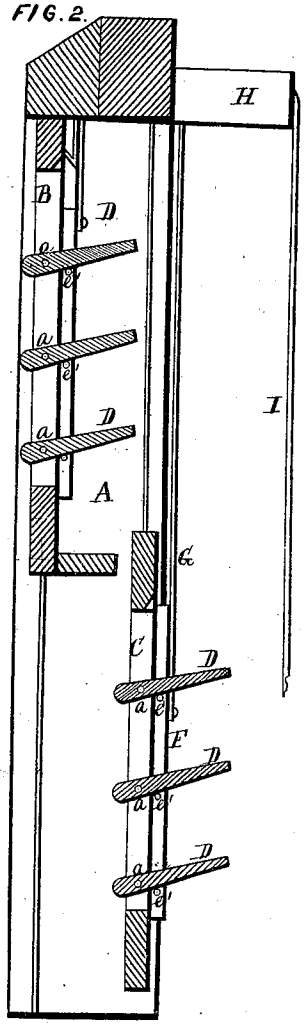
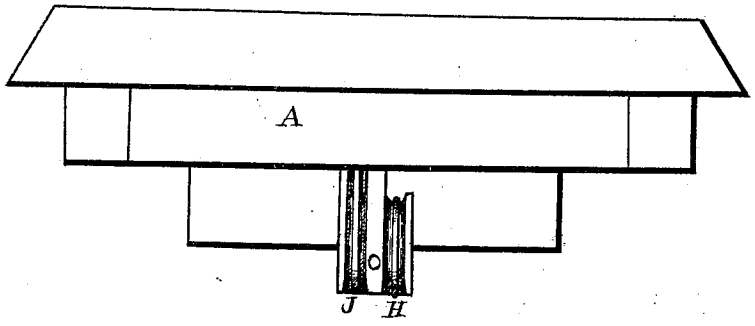


FIG. 3.



WITNESSES.

A. F. Conrell.

R. A. Williams,

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Wm Strunk.

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N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

2 Sheets--Sheet 2.

W. STRUNK.

Blind-Slat Operator.

No. 169,127. Patented Oct. 26, 1875.

FIG. 4.

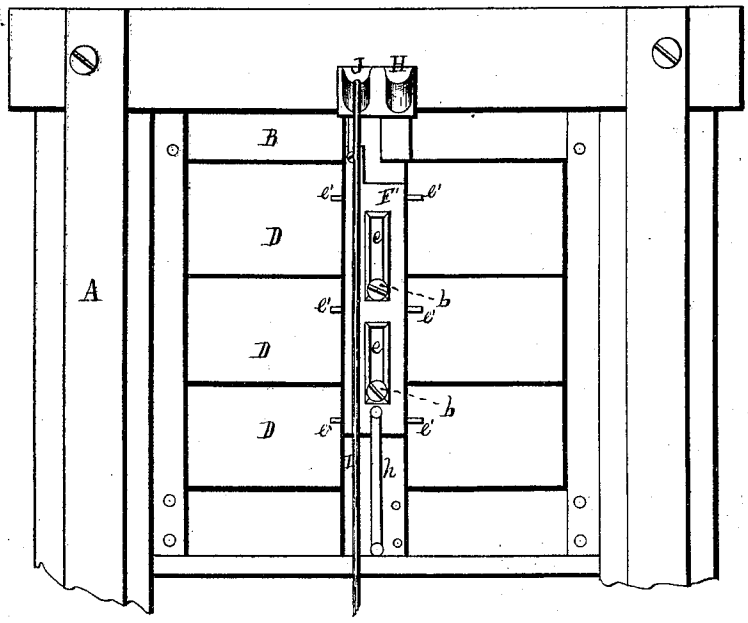
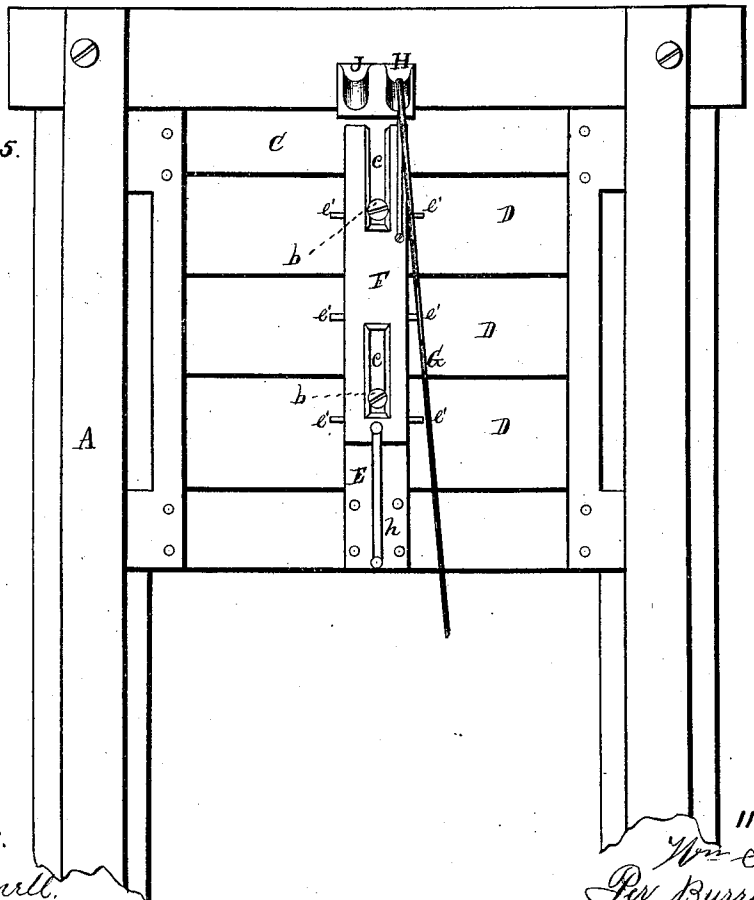


FIG. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM STRUNK, OF MONTGOMERY, MICHIGAN.

IMPROVEMENT IN BLIND-SLAT OPERATORS.

Specification forming part of Letters Patent No. **169,127**, dated October 26, 1875; application filed September 18, 1875.

To all whom it may concern:

Be it known that I, WM. STRUNK, of Montgomery, in the county of Hillsdale, in the State of Michigan, have invented new and useful Improvements in Mode of Operating Window-Blinds, of which the following is a description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a view of the blinds with the slats thereof open. Fig. 2 is a vertical section of Fig. 1. Fig. 3 is a top view. Figs. 4 and 5 are views of the blinds raised up and the slats closed.

Like letters of reference refer to like parts in the several views.

This invention relates to and consists in a device of novel arrangement and construction for raising window-blinds, and for opening the slats thereof at the same time, as will be hereinafter more fully described, and definitely claimed.

In the drawings, A represents a window-frame to which is fitted a pair of sliding blinds, B C, of which D are the slats. Said slats are pivoted in the frame of the blind near one edge of the slats, as will be seen at *a*, Fig. 2, representing the pivotal points of the slats in the frame. To the upright bar E of each of the blinds is secured a slide, F, by means of screws, *b*, inserted in the slots *c* of the slides. To the slide F of the lower blind is attached one end of a cord, G. Said cord extends up to and over a guide, H, Figs. 1 and 3, projecting from the top of the window, as will be seen in Fig. 2. To the slide F′ of the upper blind is attached one end of a cord, I, which in like manner reaches up to and passes over a guide, J, by the side of the cord attached to the lower slide F, as will be seen in Fig. 3.

The practical operation of the above-described invention is as follows: In the event the slats of the lower blind C are to be closed it may be done by pulling down upon the cord G, which, as a consequence, will draw upward the slide F, thereby causing the pins *e* projecting from the slides (and upon which the slats rest, as will be seen in Fig. 2) to lift or turn the slats, closing them, as shown in Fig. 5, in which closed position they are retained by making fast the loose end of the cord to a knob at the side of the window. Should it be required to open the slats, the cord is loosened and the slide is then drawn down by an elastic cord or spring, *h*, attached to the lower end of the slide, as will be seen in Figs. 4 and 5. The downward movement of the slide carries with it the pins followed by the descent of the slats to the position shown in Fig. 2. The slats of the upper blind B are opened and closed in like manner, by means of the cord I manipulated in the same way as the cord G.

Should it be necessary to raise the lower blind, as well as open the slats thereof, it can be done by a continued pull on the cord after the slats have been pulled open. This will draw up the lower blind to the position shown in Fig. 5, which represents the lower blind as raised up in order to gain access to the window.

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

The slides F, pins *e*, springs *h*, cords G I, and guides J H in combination with the slats D of the window-blinds B C, in the manner substantially as described, and for the purpose set forth.

WILLIAM STRUNK.

Witnesses:

MICHAEL OREWILE,

AMBROSE C. SHEFFER.