No. 737,476. PATENTED AUG. 25, 1903.

A. C. PRICE & W. J. CONNER.

OPERATING DEVICE FOR WINDOW BLINDS.

APPLICATION FILED DEC. 31, 1902.

NO MODEL.

Fig. 1.

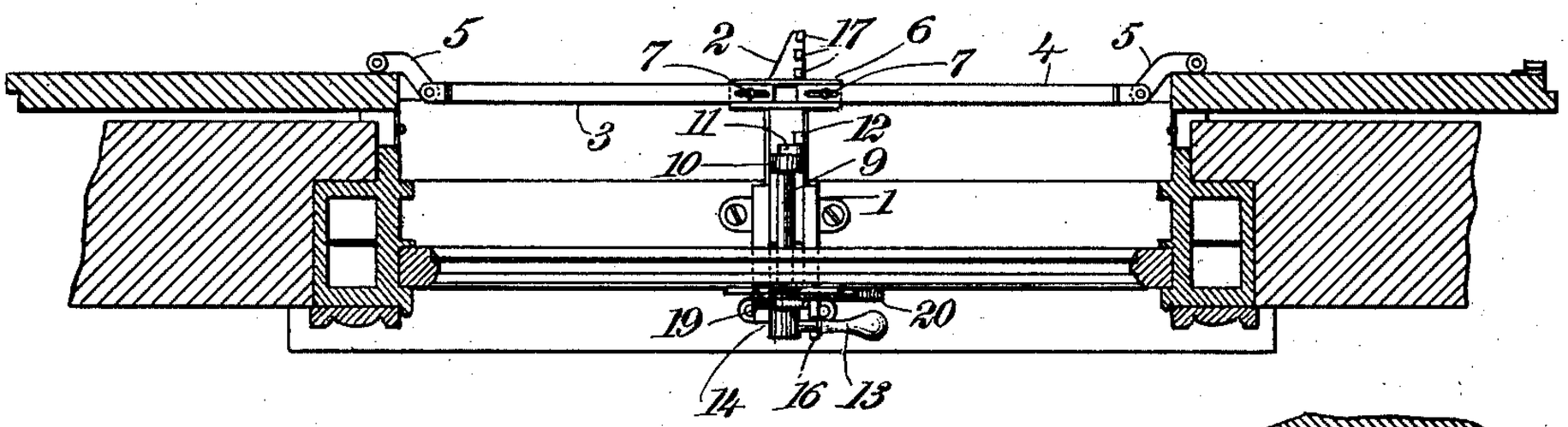
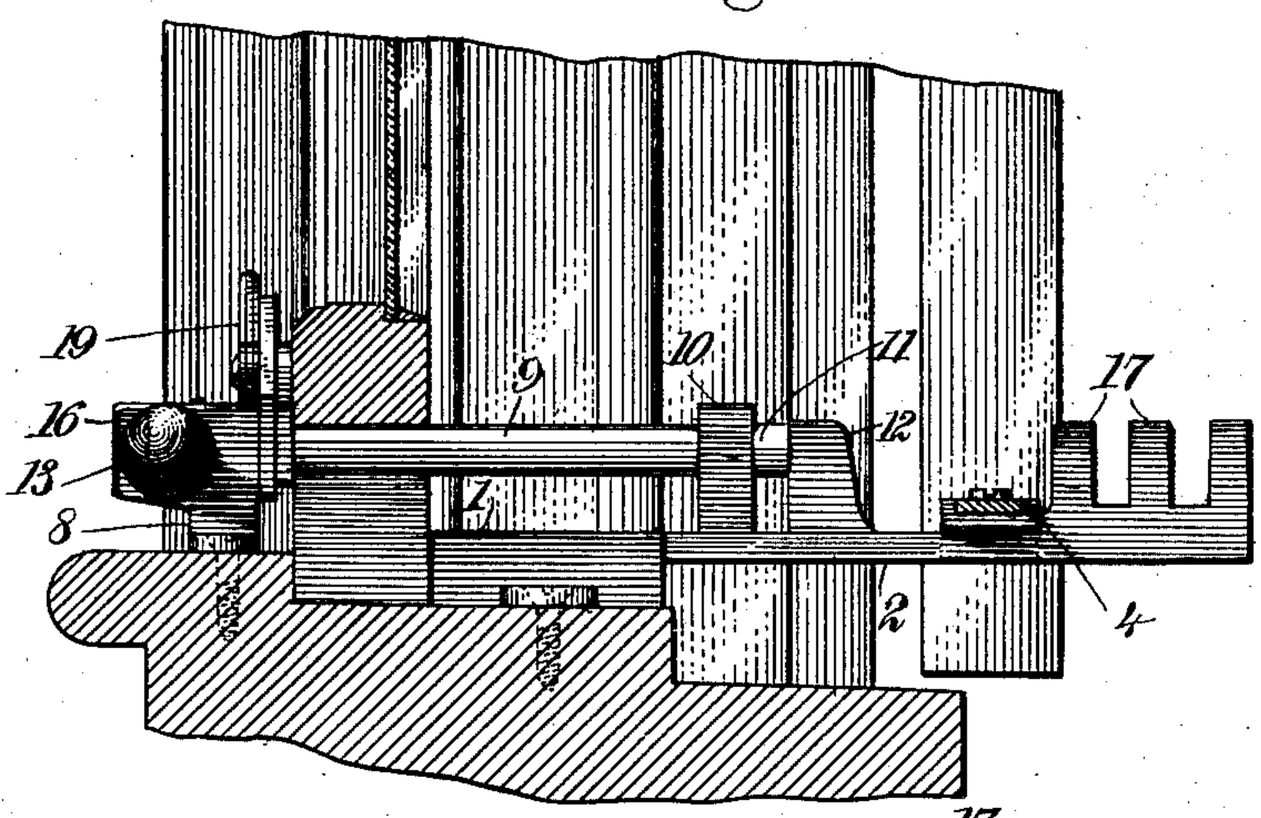


Fig. 2.



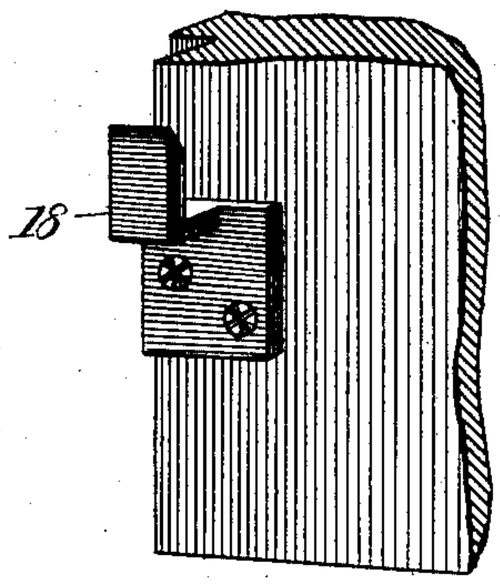


Fig. 3.

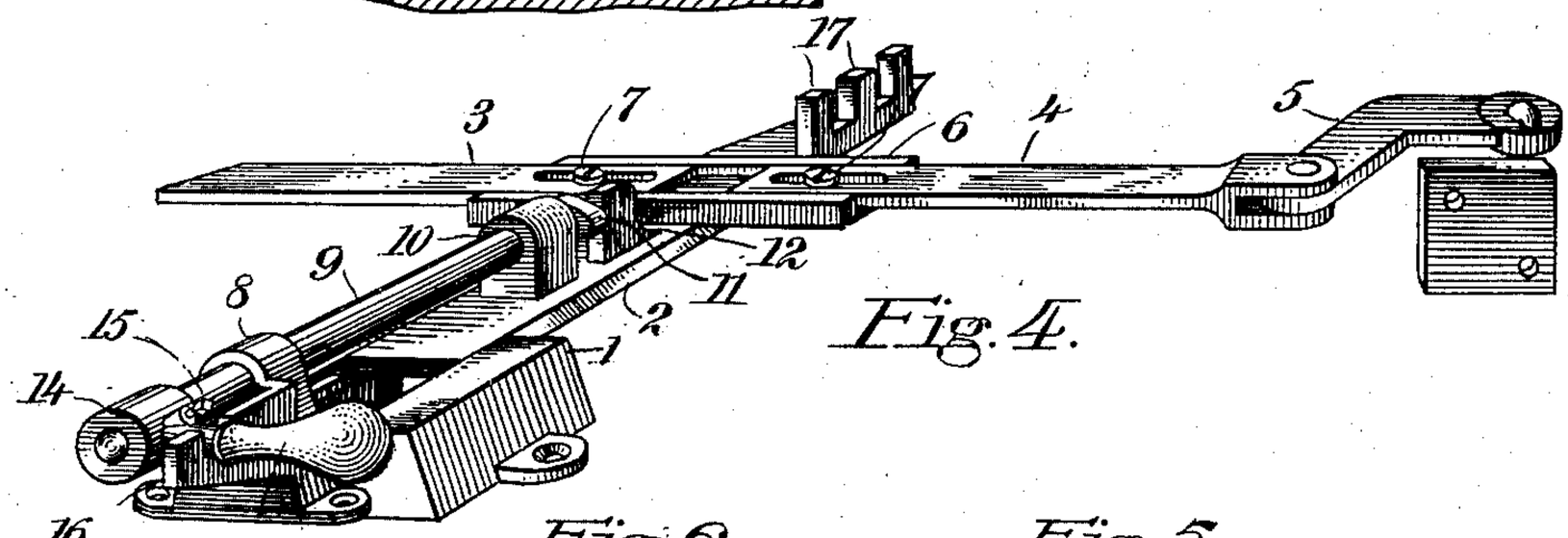


Fig. 4.

Fig. 6.

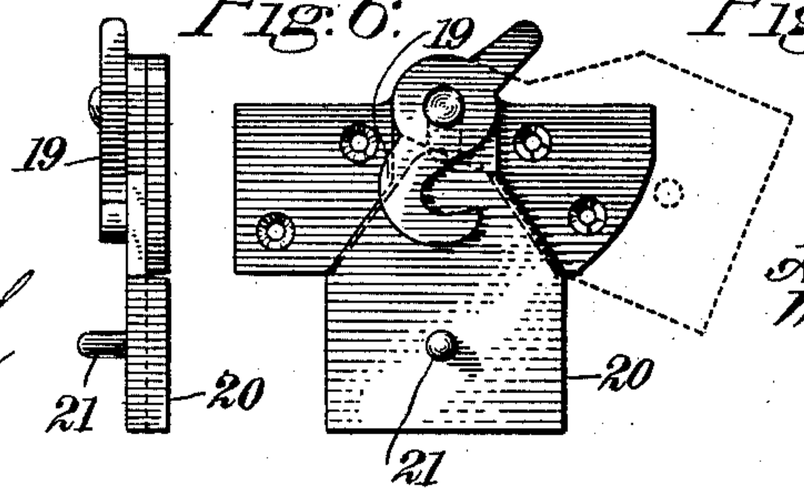


Fig. 5

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No. 737,476. Patented August 25, 1903.

UNITED STATES PATENT OFFICE.

ALBERT C. PRICE, OF RUSSELLVILLE, AND WILLIAM J. CONNER, OF BART, PENNSYLVANIA.

OPERATING DEVICE FOR WINDOW-BLINDS.

SPECIFICATION forming part of Letters Patent No. 737,476, dated August 25, 1903.

Application filed December 31, 1902. Serial No. 137,305. (No model.)

To all whom it may concern:

Be it known that we, ALBERT C. PRICE, a resident of Russellville, in the county of Chester, and WILLIAM J. CONNER, a resident of Bart, in the county of Lancaster, State of Pennsylvania, both citizens of the United States, have invented a new and Improved Operating Device for Window-Blinds, of which the following is a full, clear, and exact description.

This invention relates to improvements in devices for operating window blinds or shutters, the object being to provide a device of this character by means of which window-blinds may without opening the window be opened and closed and locked in either of such positions or locked at any desired opening or bowing.

We will describe an operating device for window-blinds embodying our invention and then point out the novel features in the appended claims.

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

Figure 1 is a plan view of an operating device for window-blinds embodying our invention. Fig. 2 is a side elevation thereof. Fig. 3 is a perspective view showing a locking-latch on the blinds. Fig. 4 is a perspective view of the device. Fig. 5 is a face view of a sash-lock employed, and Fig. 6 is an edge view thereof.

Referring to the drawings, 1 designates a boxing designed to be secured to a window-sill at the outer side of the window and serves as a slideway for a slide-plate 2. This slide-plate has its edges beveled, and the boxing 1 has correspondingly-shaped channels to receive said edges. Draw-rods 3 4 extend laterally to the outer portion of the slide-plate 2 and connect with angle-levers 5, which have pivotal connection with the blinds, as clearly illustrated in Fig. 1. The draw-rods are adjustable outward and inward for the purpose of fitting them to different widths of windows. The inner or adjacent ends of these draw-rods are fitted in a cross-head 6 on the slide-plate 2, and screws 7 pass through slots in said draw-rods and engage in said cross-head. The cross-head is channeled or provided with edge flanges to engage with the edges of the draw-rods to prevent their turning.

Also secured to the window-sill at the inner side of the window is a guide-block 8, through an opening in which an operating and locking rod 9 freely moves. This rod 9 also moves freely through an opening in a block 10, attached to the slide-plate 2, and at its end it has a laterally-disposed lug or finger 11, adapted to engage with the block 10 or with a lug 12, extended upward from the plate 2, as will be hereinafter described. At the inner end the rod 9 is provided with a laterally-extended handle 13. This handle is adjustable lengthwise of the rod, so that the length of movement of said rod may be regulated to the movement of the blinds or shutters. As here shown, the handle is connected to a sleeve 14, movable on the rod and held in its adjusted position by a set-screw 15. Extended inward from the inner side of the guide 8 is a latch-plate 16, having a notch to receive the shank of the handle to lock the rod from movement. Outward of the cross-head 6 the slide-plate 2 is provided with upwardly-extended lugs 17, between which the lug 11 may engage for locking the blinds in bowed position, or the said lug 11 may engage with a keeper 18, attached to one of the blinds for the purpose of locking the same closed. The bottom rail of the window-sash is slotted or cut out, so as to receive the rod 9 when the window is in closed position, and the window may be locked in closed position by means of a hook 19, pivoted to the bottom rail of the sash and adapted to engage with the rod 9. To cover the opening in the sash when the sash is open, a plate 20 is mounted to swing on the pivot of the hook 19, this plate being provided with a finger-piece 21, by means of which it may be readily moved to one side, as indicated in the dotted lines in Fig. 5, when the window is closed.

In the drawings the shutters or blinds are shown as locked in open position. Should it be desired to close the same, the handle 13 is to be released from the keeper-plate 16 by swinging it upward. Then upon drawing inward the rod 9 and as the lug 11 engages the

outer side of the block 10 the slide-plate will be moved inward, and through the agency of the draw-rods 3 and 4 and the angle-levers the blinds will be moved to closed position. After such closing the rod 9 is to be turned so that the lug 11 will point upward and be free to pass the lug 12, after which the rod 9 is to be slid outward and turned to engage the lug 11 between the lugs 17 or with the keeper 18, as before described. If it is desired to bow the blinds after they shall have been moved to the desired position, the lug 11 is to be engaged between the lugs 17, as before described. Of course at this time the plate 2 will only be a part way inward.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. In an operating device for window-blinds, a boxing secured to a window-sill, a slide-plate movable in said boxing, draw-rods extended laterally from said slide-plate, angle-lever connections between said rods and the blinds, and means for moving the slide-plate from the inner side of the window.

2. A device for operating window-blinds, comprising a boxing adapted to be secured to a window-sill at the outer side of the window, a plate mounted to slide in said boxing, laterally-extended rods adjustably connected to said slide-plate, angle-lever connections between said rods and the blinds, and means for moving said plate inward and outward from the inner side of the window.

3. An operating device for window-blinds, comprising a boxing adapted to be secured to a window-sill at the outer side of the window, a guide-block adapted to be secured to the sill at the inner side of the window-sash, a plate mounted to slide in said boxing, a perforated block on said plate, an operating-rod movable through said guide and through said perforated block, a laterally-extended lug on the outer end of said rod, and an upwardly-extended lug on the slide-plate forward of said block.

4. An operating device for window-blinds, comprising a boxing adapted to be secured to a window-sill at the outer side of the window-sash, a guide adapted to be secured to the sill at the inner side of the sash, a plate mounted to slide in said boxing, arms extended laterally from said plate, angle-lever connections between said arms and the blinds, spaced lugs on the outer end of said plate, a perforated block on the plate, an operating-rod movable loosely through said block and through said guide, a laterally-extended lug on the outer end of the rod, a lug extended upward from the slide-plate forward of the block, and a handle on the inner end of said rod.

5. An operating device for window-blinds, comprising a boxing adapted to be secured to a window-sill at the outer side of the sash, a guide adapted to be secured to the sill at the inner side of the sash, a perforated block on said plate, a rod movable through said block and through said guide, a handle adjustable on the inner end of said rod, a notched plate extended inward from said guide adapted to receive the handle, a laterally-extended lug on the outer end of the rod, a lug extended upward from the plate forward of said block, and connections between said plate and the window-blinds.

6. The combination with a window-frame, a window-sash having a notch in the bottom rail, and blinds, of an operating device comprising a slide-plate, connections between said slide-plate and the blinds, a rod for moving said plate inward and outward, a hook pivoted to the window-sash and adapted for engagement with said rod, and a swinging plate on the sash for covering the opening in the bottom rail of the sash when the sash is opened.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

ALBERT C. PRICE.
WILLIAM J. CONNER.

Witnesses:
D. R. JOHNSON,
HERMAN TURNER.