

UNITED STATES PATENT OFFICE.

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BLIND-SLAT OPERATOR.

SPECIFICATION forming part of Letters Patent No. 298,860, dated May 20, 1884.

Application filed September 18, 1883. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM H. KEERAN, a citizen of the United States, residing at Auburn, in the county of De Kalb and State of Indiana, have invented certain new and useful Improvements in Blind-Slat Operators; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in blind-slat operators; and it consists in the construction, combination, and arrangement of the several parts, as will be hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is an elevation from the inner side of a window having my improvements attached. Fig. 2 is a detached side view of the window framing, shutter, &c. Fig. 3 is a vertical section on about line $x x$, Fig. 1. Fig. 4 is a detail view of the operating devices; and Fig. 5 is a detail view of the slat, all of which will be described. In illustrating my improvements I have omitted the sashes in order to show more clearly the novel features.

The casing A is provided with the usual side rails, $a a'$, the rails $a a'$ forming a way for the upper sash, and the rails $a' a^2$ a similar way for the lower sash, as will be seen in the drawings.

The shutters B are hinged in the ordinary manner, and are provided with the slats b , pivoted on rod b' between the side bars of the shutter-frame, and constructed with an extension, b^2 , beyond their pivotal points, as shown. From the inner ends of the slats I project rods b^3 , bent in crank form, as shown. These rods are secured to the extension b^2 , as shown, and their pins or wrists b^4 are journaled in suitable openings formed in a vertical bar, C, which moves up and down along the inner side bar of the shutter-frame. This bar is braced and guided by lugs B' , secured on the inner face of the side bar of the shutter-frame, as most clearly shown in Fig. 2. It will be seen that as this bar is adjusted up and down the slats will be tilted, as indicated in dotted

lines. On the inner edge of this movable bar I form a slot, c , to receive the stud on the operating devices hereinafter described.

The lever D is pivoted at its forward end, d , and works in a suitable opening in rear of the rails $a a'$, as shown, and is provided at its opposite end with a handle, d' , also a dent, d^2 , supported by spring d^3 , and engaging a segment-rack, d^4 , secured on the window-frame, so that the lever may be held at any suitable point desired. A strap or bar, D' , is swiveled to and depends from the lever D, between the rails $a a'$. These rails serve to retain the strap in its vertical position. The lower end of this strap is bent out slightly, as shown in Fig. 4, so as to escape the rail a , and a short stem, D^2 , is secured to this end of the strap and extends forward therefrom, and is provided with stud D^3 , which enters the slot in the rear edge of the movable bar, as shown in Fig. 3. By this means it will be seen the action of the lever serves to operate the slats when the blinds are closed, yet the connection is such that the operating mechanism and movable bar are readily detached from each other when the shutters are opened.

It will be seen that I employ a lever, D, for each shutter, and that the shutters are operated independently of each other.

It is obvious that the movable bar might be operated in various ways; but I prefer the means shown and before described, as thereby simple and convenient devices are provided which are efficient, and do not interfere with the operation of the window-sashes.

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

1. In a blind-slat operator, the combination, with the shutter having pivoted slats and movable bar arranged alongside the shutter and connected with the slats, as described, of the lever pivoted to the window-framing, and having its outer end connected with the movable bar and its inner end engaging a suitable rack, whereby the slats may be held at any desired angle, substantially as described, and for the purposes specified.

2. The blind-slat-operating device, substantially as described and shown, composed of the pivoted slats having extensions beyond their pivots, the vertically-movable bar pro-

vided on its inner edge with a slot, as described, crank-rods connecting the slats and movable bar, the pivoted lever provided with depending strap or bar having a stud projected into the slot in the movable bar, the rack, and a suitable detent secured to the lever and engaging the rack, all as and for the purposes specified.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. KEERAN.

Witnesses:

J. W. BOYLE,
ISAAC HOGAN.