

No. 895,139.

PATENTED AUG. 4, 1908.

D. I. ANDREWS.
WINDOW BLIND.

APPLICATION FILED MAY 13, 1907.

Fig. 1.

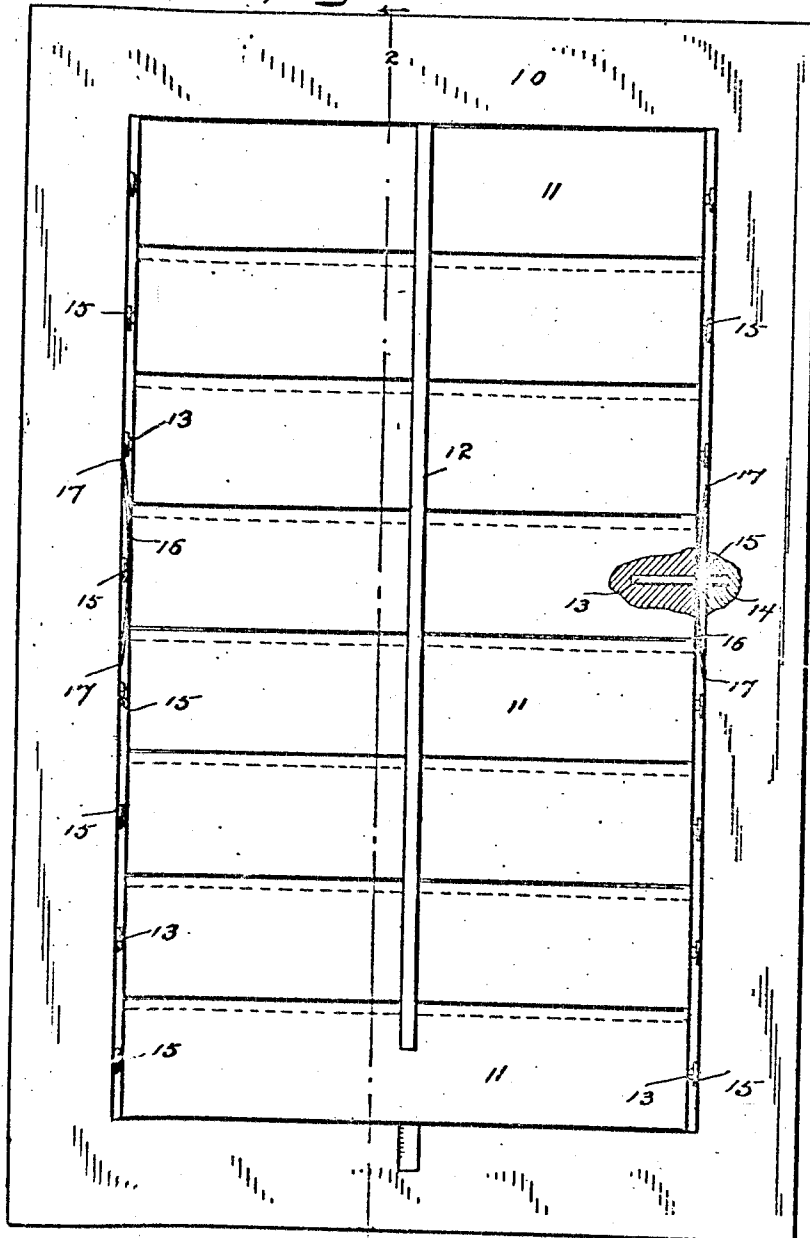
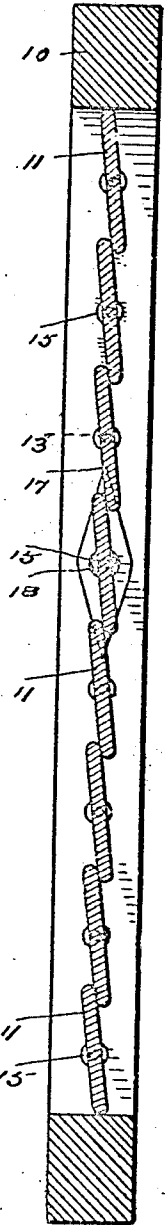


Fig. 2.



WITNESSES

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WINDOW-BLIND.

No. 895,139.

Specification of Letters Patent.

Patented Aug. 4, 1908.

Application filed May 13, 1907. Serial No. 373,262.

To all whom it may concern:

Be it known that I, DAYTON I. ANDREWS, a citizen of the United States, residing at Southington, county of Hartford, State of Connecticut, have invented a new and useful Window-Blind, of which the following is a specification.

This invention has for its object to provide a window blind of the swinging slat type, which shall be simple and inexpensive to produce, the slats of which shall be easy to operate and will remain in any position in which they may be placed, and which shall be so constructed that it may be painted as often as may be required without danger of setting the slats or interfering in any way with their working.

With these and other objects in view I have devised the novel window blind, of which the following description in connection with the accompanying drawing is a specification, reference characters being used to indicate the several parts:

Figure 1 is an elevation, partly broken away, to illustrate the construction of my novel blind; and Fig. 2 is a section on the line 2—2 in Fig. 1, looking in the direction of the arrows.

10 denotes the frame, 11 the slats and 12 the usual operating rod. The slats swing upon pins 13 which may be of metal and are driven firmly into the ends of the slats at their mid-width and turn in sockets 14 in the inner sides of the frame. Each of the pins 13, at a distance from its pivot end substantially equal to or slightly less than the depth of the sockets 14, is provided with a collar 15 of considerably greater diameter than said sockets. With the above construction when the pivot ends of the pins are placed within their corresponding sockets, the collars 15 fit closely over and effectually close the sockets in the sides of the frame without, however, interfering to the slightest extent with the rotation of the pins in the sockets. Important functions of these collars are to retain the slats in a central position and prevent endwise movement thereof and, by covering the sockets in the frame in which the pins turn, to keep the sockets free from dirt and prevent paint from getting into the sockets to set the slats or otherwise interfere with their working when the blinds are painted.

In order to insure that while the slats shall work freely and easily at all times, they will

also remain in any position in which they may be placed, I provide bow-springs 16 which may be made of an elongated diamond-shape, as shown in the drawing, the bowing of the springs causing the points thereof, which are indicated by 17, to engage the wood at the mid-width of the inner sides of the frame.

Two springs are ordinarily quite sufficient for each set of slats, the springs being preferably placed at about the mid-length of the series of slats, one spring on each side of one of the slats. For convenience in assembling, I provide each spring with a central opening 18 large enough to receive the collar 15 on a pin freely, as clearly shown in Fig. 2.

In use, the springs do not change their position, but the mid-lengths of the springs bear upon the opposite ends of the slat to which they are applied with sufficient friction to retain that slat and with it the other slats, which are connected thereto by means of the operating rod, in any position in which they may be placed. The slats work freely and without endwise movement when sufficient power is applied to overcome the friction of the springs, but are retained by the friction of the springs in any position in which they may be placed. For a long series of slats, two of the slats in the series may be provided with a spring at each end. Ordinarily, however, it will be found quite sufficient to provide one slat only with springs.

Having thus described my invention, I claim:

In a window blind, the combination with a frame provided with sockets, slats within said frame, and pins, each of which is provided with a collar of greater diameter than said sockets, said pins having a rigid engagement with said slats at one of their ends, their other ends being placed within corresponding sockets, said collars bearing against and closing the entrances to said sockets, of a pair of bow-springs interposed between the ends of one of said slats and said frame, said springs being provided with openings, of greater diameter than said collars, through which said pins pass.

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

DAYTON I. ANDREWS.

Witnesses:

M. L. PLATT,
J. H. PRATT.