July 12, 1927.

E. S. BIGELOW

1,635,700

WINDOW SHADE SUPPORT

Filed Aug. 30, 1926

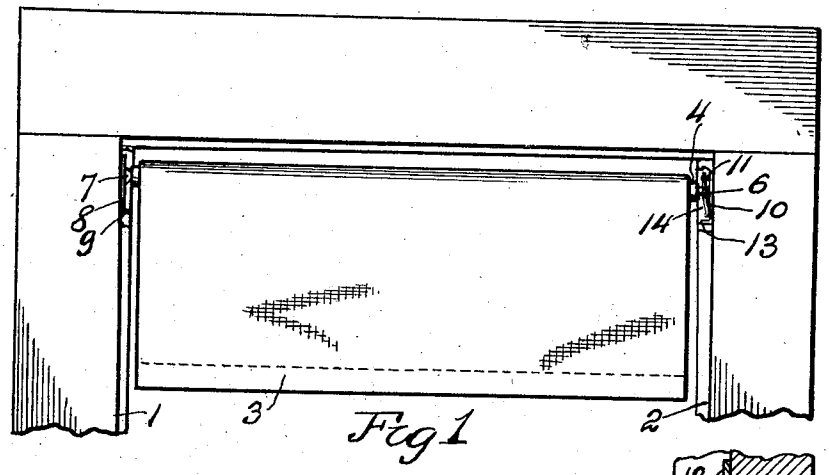


Fig 1

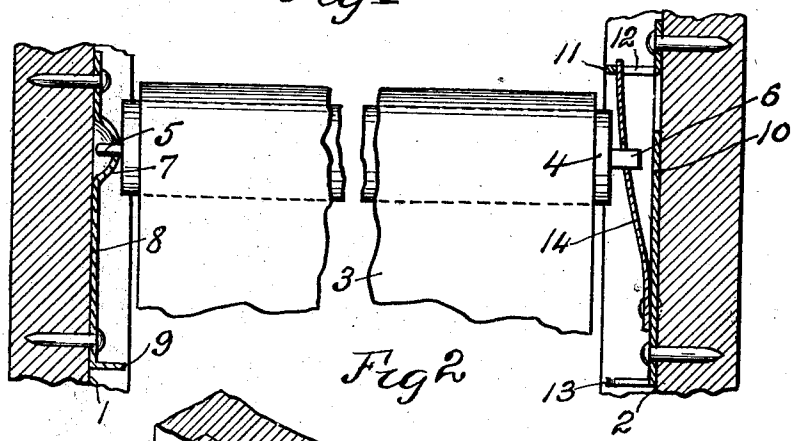


Fig 2

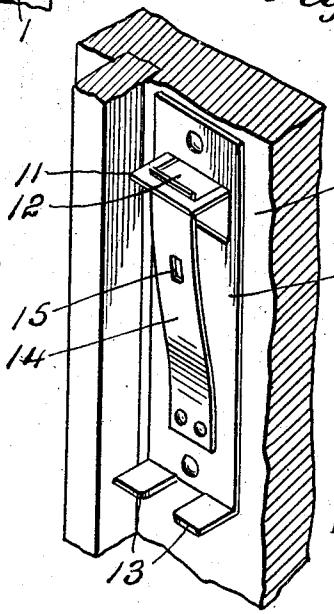


Fig 3

INVENTOR.

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Witness:

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UNITED STATES PATENT OFFICE.

EDMUND S. BIGELOW, OF KANSAS CITY, MISSOURI.

WINDOW-SHADE SUPPORT.

Application filed August 30, 1926. Serial No. 132,456.

My invention relates to improvements in window shade supports. It is well adapted for use in the support of shade rollers in the runways of the lower or inner sash.

One of the objects of my invention is to provide a novel support for a shade roller, which is simple, cheap, durable not liable to get out of order, which permits of the easy insertion and removal of the shade roller without liability of unwinding the shade roller spring, which reliably supports the shade roller, and which serves as a stop for limiting the upward movement of the lower sash to prevent the latter damaging the shade or roller.

The novel features of my invention are hereinafter fully described and claimed.

In the accompanying drawing, which illustrates the preferred embodiment of my invention,

Fig. 1 is an inside elevation of a window shade mounted in a window frame, a portion only of which is shown, provided with my improvement.

Fig. 2 is an enlarged view showing in vertical section portions of opposite window jambs, a window shade and its roller in elevation partly broken away, and my improved support, shown in vertical section mounted on the jambs and supporting the shade roller.

Fig. 3 is a perspective view, enlarged of one of my improved hangers mounted on a jamb a portion only of which is shown.

Similar reference characters designate similar parts in the different views.

1 and 2 designate two opposite jambs of a window frame, 3 the curtain portion of a window shade, and 4 the shade roller having the usual stationary spindle 5 at one end, and the usual spring spindle 6 at its other end, said spindle 6 having the usual flattened outer end by which that end of the roller is supported and the spindle 6 held from turning as the roller 4 is revolved.

The spindle 5 is rotatably mounted in a hole in a boss 7 of a plate 8 fastened to the inner side of the jamb 1 in the runway of the lower or inner sash, not shown.

The lower end of the plate 8 has an inwardly extending projection 9 adapted to engage the upper end of the lower sash to limit the upward movement of the latter to prevent the sash striking and damaging the shade or the shade roller.

Fastened to the inner side of the jamb 2 in the runway of the lower sash is a supporting member comprising, preferably, a plate 10 having a lip 11 which extends laterally inwardly and is provided with a vertical hole 12. The lower end of the plate 10 is provided with two spaced apart projections 13 adapted to engage the upper end of the lower sash to limit the upward movement of the sash.

A spring plate 14 has its lower end fastened to the plate 10 above the projections 13 and alined with the space between said projections. The spring plate 14 diverges upwardly from the plate 10 and enters the hole 12 and bears at its outer side against the lip 11, the latter engaging the longitudinal edges of the spring plate 14 to hold the latter against lateral displacement.

The spring plate 14 has a rectangular hole 15 adapted to receive the flattened outer end of the spindle 6, said hole being of such dimensions that the spring plate 14 will hold the spindle 6 from turning in the hole 15, when the spring plate 14 is in its operative position shown in the drawing.

The spring plate 14 is depressible from the operative position past the outer end of the spindle 6 to permit of the insertion of the spindle 6 into and its removal from the hole 15.

In the operation of the invention, in mounting the roller 4, the spindle 5, is inserted in the boss 7, and the spindle 6 is passed upwardly between the projections 13 and against the spring plate 14 until the spindle 6 enters the hole 15 in the spring plate 14, upon which the said spring plate, which has been depressed, will spring into its operative position shown in the drawing, in which position it will support the adjacent end of the roller 4 and will hold the spindle 6 from turning in the hole 15. To remove the shade, the spring plate 14 is depressed from its operative position, and the spindle 6 is lowered, after which the spindle 5 may be removed from the boss 7.

I do not limit my invention to the structure shown and described, as modifications, within the scope of the appended claim, may be made without departing from the spirit of my invention.

What I claim is:—

In a window shade support, a supporting member adapted to be mounted in the runway of a lower sash and provided with two spaced apart projections disposed in the

same horizontal plane, and having above said projections a laterally extending lip provided with a vertical hole, and a spring plate fastened at its lower end to and diverging upwardly from said member and alined with the space between said projections and extending into said hole and held under tension by said lip and engaged at its longitudinal edges by said lip, and, below said lip, having a hole adapted to receive an end spindle of a shade roller.

In testimony whereof I have signed my name to this specification.

EDMUND S. BIGELOW.