





# UNITED STATES PATENT OFFICE.

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## SHADE-SUPPORTING BRACKET.

SPECIFICATION forming part of Letters Patent No. 782,698, dated February 14, 1905.

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*To all whom it may concern:*

Be it known that I, ULYSSES G. RICH, a citizen of the United States, residing at Faulkton, in the county of Faulk and State of South Dakota, have invented certain new and useful Improvements in Shade-Supporting Brackets; and I do hereby 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.

My invention has for its object to provide a simple, cheap, and efficient window-shade-supporting bracket which is adapted for application to and removal from the window-frame without the use of screws or other devices which will mar the woodwork.

To the above ends the invention consists of the novel devices and combinations of devices hereinafter described, and defined in the claim.

The invention is illustrated in the accompanying drawings, wherein like characters indicate like parts throughout both views.

Figure 1 is a view showing a horizontal section, a portion of a window frame and sash, and showing a plan view of one of my improved brackets applied in working position to said frame; and Fig. 2 is a section taken approximately on line  $x^2 x^2$  of Fig. 1, some parts being broken away.

The numeral 1 indicates a portion of a window-frame of usual construction, the same having the inside stop-strip 2, the outside stop-strip 3, and the intermediate stop-strip 4.

The numeral 5 indicates the upper or outer sash, which works in the channel formed between the stop-strips 3 and 4. The inner or lower sash, which works in the channel formed between the stop-strips 2 and 4, is not shown in the drawings.

My improved bracket or support has preferred construction, as follows: The numeral 6 indicates a rectangular box or casing, which is opened at one edge. Through the open edge of this box 6 at the upper and lower portions thereof is a pair of racks 7, that are originally tightened together at their outer ends by a vertical bar 8, having at its intermediate portion a lateral extension 9, that is bent

outward to form an approximately L-shaped extension. The outturned end of the extension 9 is formed with inturned guard-lugs 10, that will adjustably hold an angle-piece 11. A set-screw 12 works through the end portion of the extension 9 and impinges against the adjacent portion of the angle-piece 11 to rigidly hold the latter in any set adjustment.

Loosely mounted within the box 6 is a pair of intermeshing spur-gears 13, that mesh one with each of the racks 7. One of the gears 13—to wit, as shown, the upper member—has an outwardly-extending angular shank 14, to which a key may be applied to simultaneously turn the two gears. The key-shank 14 carries a small ratchet-wheel 15, which is normally engaged by a lock-dog 16, pivoted on one face of the box 6.

The numeral 17 indicates an ordinary feed-roller, having at one end a round shank 18 and at its other end a flattened shank, (not shown,) this being ordinary construction. The bracket extension 11 illustrated in the drawings is formed with a round seat for the reception of the round trunnion 18, and it will of course be understood that the corresponding bracket extension at the other end of the roller will be provided with an elongated seat for the flat trunnion of the roller.

In applying the supporting-bracket in working position the expansible head formed by the box 6, racks 7, and presser-bar 8 is placed in the channel between the inner stop-strip 2 and intermediate stop-strip 4 near the top of the window-frame and is expanded or pressed into engagement with said two stop-strips by rotary motion imparted to the two gears 13 by a suitable key (not shown) applied to the angular shank 14. The lock-dog 16, acting on the ratchet-wheel 15, serves to lock the parts of said head against the said stop-strips. In this manner the curtain-supporting bracket is firmly held in position without in any wise defacing the window-frame.

As is evident, the device may be quickly removed from working position simply by releasing the dog 16 from the ratchet-wheel 15. The adjustable angular bracket extensions 11 adapt the device to be applied to

rollers that vary considerably in length or which overlap different distances with the window-frame.

The device described, while efficient for the purposes had in view, is of comparatively small cost and is very long-lived.

What I claim, and desire to secure by Letters Patent of the United States, is as follows:

A supporting-bracket of the character described comprising a box-like section 6, intermeshing gears 13 mounted in said box, one of said gears having an angular shank 14 and ratchet-wheel 15, the lock-dog 16 on said box

coöperating with said ratchet-wheel, the racks 7 working within said box and meshing with said gears, the presser-bar 8 connecting said racks, and a supporting-arm or bracket extension projecting from said bar 8, substantially as described.

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

ULYSSES G. RICH.

Witnesses:

FRANK TURNER,  
RUBY McDEARMON.