

J. E. HALL.
 VERTICALLY MOVABLE SHADE BRACKET.
 APPLICATION FILED JUNE 27, 1910.

977,949.

Patented Dec. 6, 1910.

Fig. 1.

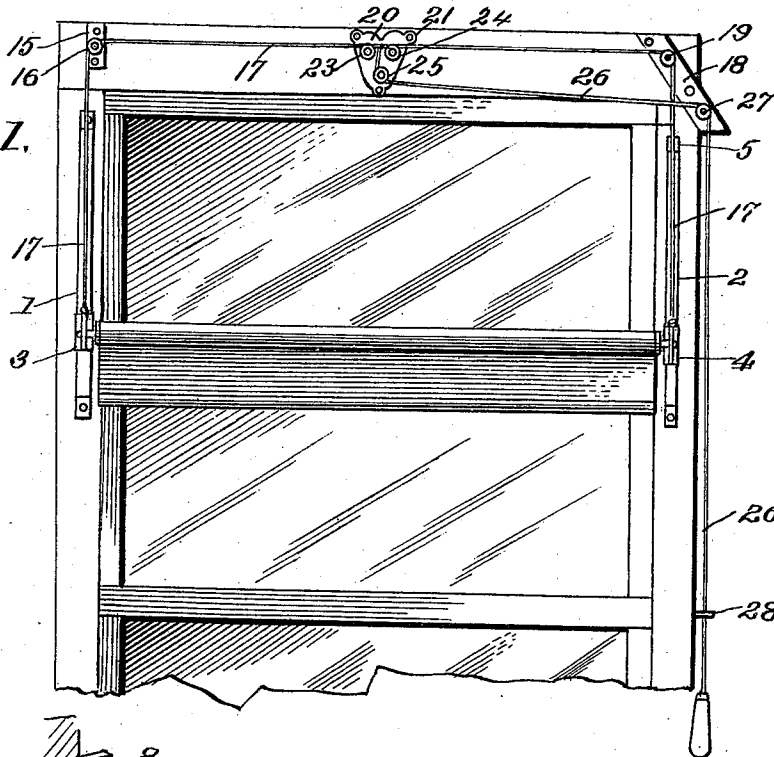


Fig. 2.

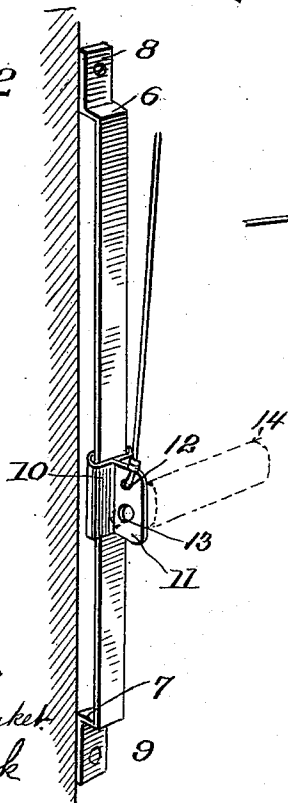
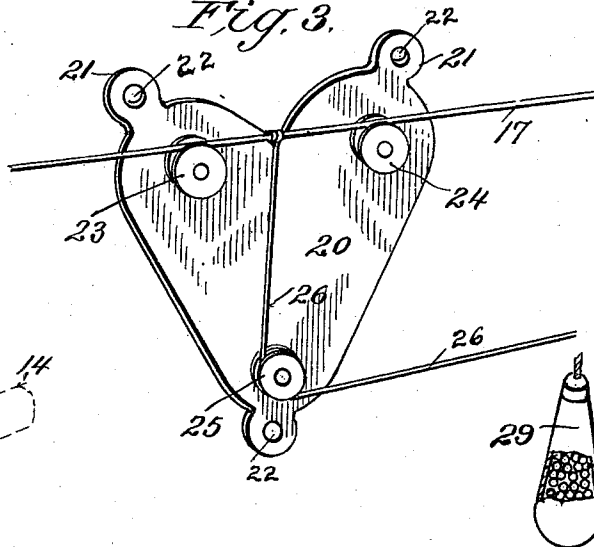


Fig. 3.



Witnesses
 L. L. Burkett
 E. R. Peck

J. E. Hall.
 By A. S. Pattison.
 Attorney

UNITED STATES PATENT OFFICE.

JOEL E. HALL, OF MERIDIAN, MISSISSIPPI.

VERTICALLY-MOVABLE SHADE-BRACKET.

977,949.

Specification of Letters Patent.

Patented Dec. 6, 1910.

Application filed June 27, 1910. Serial No. 569,113.

To all whom it may concern:

Be it known that I, JOEL E. HALL, a citizen of the United States, residing at Meridian, in the county of Lauderdale and State of Mississippi, have invented certain new and useful Improvements in Vertically-Movable Shade-Brackets, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in vertically movable shade brackets.

The object of my invention is to provide a more simple, cheap and effective shade bracket and means for vertically adjusting the same, and holding it in its adjusted position.

Another object of my invention is to provide a more simple means of arranging and attaching the rollers to the window frame and the arrangement of the cables to cause a perfect vertical movement of the two brackets.

In the accompanying drawings: Figure 1 is a plan view of a window frame showing my invention applied thereto. Fig. 2 is an enlarged perspective view of my improved shade bracket and vertical support. Fig. 3 is an enlarged perspective view of the central roller supporting member and the weighted handle.

Referring now to the drawings, 1 and 2 represent two vertically arranged guides, which are placed upon the window-frame on opposite sides and are adapted to support the shade-brackets 3 and 4.

The guides 1 and 2 are made of an elongated plate 5 of sheet metal having the offset portions 6 and 7, and said offset portions have laterally extending ends 8 and 9, parallel with the plate 5. These lateral ends are provided with openings and through which nails or screws pass, and by means of which the guide is secured to the window-frame.

The shade brackets are formed of sheet metal and consist of a hollow flat body portion 10 of a shape and size to receive the elongated plate 5 of the guide and provided with a flat horizontal vertically disposed portion 11, which is provided with an opening 12, in which a supporting cable is attached. The portions 11 of the brackets are arranged exactly alike. The brackets, as it is understood, are arranged in pairs, that is one is provided with a round opening 13 to receive the round pintle carried

by the shade-roller 14. The other bracket 4 is provided with an angular opening to receive the angular pintle of the roller, all of which is understood by those skilled in the art and needs no further description.

Secured to the window-frame directly above the plate 1 is a plate 15, having a roller 16 over which a cable 17 passes, said cable being secured to the bracket 3. Secured to the window-frame above the bracket 2 is a plate 18, which is diagonally arranged and provided with a roller or pulley 19, over which passes the cable 17 and has the lower end secured to the shade-bracket 4.

A plate 20 is secured to the window frame at the center, and for the purpose of convenience, this plate is made heart-shaped and is provided with ears 21, having openings 22, through which pass the securing nails or screws. The plate adjacent its upper end is provided with two rollers 23 and 24, which are arranged in a horizontal alinement and over which the cable 17 passes. The rollers, as shown, are spaced some distance apart and adjacent the side of the plate. At the lower end of the plate is a roller 25, which is in a line exactly in the center with the two rollers 23 and 24. Secured to the cable 17 midway between the rollers 23 and 24 is a cable 26, which extends down around the roller 25 and over a second roller 27 carried by the lower end of the plate 18, and extends down and passes through a guide 28, carried by the window-frame. Carried by the lower end of the cable 26 is a handle 29, which is made of metal and of a hollow form, so that it can be filled with shot or other material to increase or decrease the weight thereof. This handle as is understood is to be of a weight sufficient to that of the shade roller 14 and the shade carried thereby, so that it exactly balances the same so that by raising or lowering the weight the shade is raised and lowered.

By pulling down upon the weight or handle 29, it will be seen that the cable 26 is drawn and the same being attached to the cable 17 intermediate the rollers 23 and 24, the same is drawn downwardly over said rollers and the outer ends secured to the shade brackets, the same will be raised and when the handle is released the shade remains in its adjusted position. To lower the shade the handle is simply raised or the

weight thereof, relieved from the cable 26 and the weight of the shade will carry it downward.

The construction herein shown and described provides a device of this character which can be readily applied to any ordinary window, and which needs no adjustment but is regulated by the placement of the plates 15, 18 and 20 in the proper position relative to the brackets 1 and 2. The only thing necessary to make the device fit different windows is the lengthening and shortening of the cables 17 and 26.

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

1. The combination with a window frame, of shade brackets vertically movably secured to the frame, plates secured to the frame above each bracket, rollers carried by said plates, a central plate secured to the frame, rollers carried by said plate, a cable passing over the upper rollers of the side plates and central plate and having its ends secured to the shade brackets, a second cable secured to the first cable intermediate the upper rollers of the central plate and extending under the lower roller of the central plate and over the lower roller of one of the side plates.

2. The combination with a window frame, of shade brackets vertically movable secured to the frame, plates secured to the frame above each bracket, a single roller carried by one of said plates, two rollers carried by the other plate, one above the other, a central plate secured to the frame, two rollers carried by the upper end of the central plate in a horizontal alinement, a third roller carried by said central plate below the upper rollers and intermediate the same, a cable passing over the upper rollers of the side and central plates and supporting the shade brackets, and a cable secured to the said cable intermediate the two upper rollers of the central plate and extending down around the lower roller of the central plate and over the lower roller of the side plate.

3. The combination with a window-frame, of shade brackets vertically movable on guides carried by the frame, a plate secured to the frame above one shade bracket and having a roller, an obliquely arranged plate above the other bracket and having two rollers, the upper roller arranged directly above the shade bracket, a plate secured to the center of the window frame, two rollers spaced apart and in a horizontal alinement, a third roller carried by the lower end of the plate midway between the

upper rollers, a cable secured to one shade bracket and extending up over the roller carried by the plate and passing over the two rollers carried by the center plate and over the upper roller carried by the obliquely arranged plate and secured to the other shade bracket, and a cable secured to the first mentioned cable midway between the two rollers carried by the center plate and passing down around the lower roller and over the lower roller carried by the oblique plate and extending down along the side of the window frame.

4. The combination with a window-frame, of shade brackets vertically movable on guides carried by the frame, a plate secured to the frame above one shade bracket and having a roller, a plate arranged above the other bracket and having two rollers, the upper roller arranged directly above the shade bracket, a plate secured to the center of the window frame and having two rollers spaced apart and in a horizontal alinement, a third roller carried by the lower end of the plate midway between the upper rollers, and a cable having its ends secured to the shade brackets and passing upwardly over the rollers carried by the side bracket and inwardly over the two upper rollers of the center plate, a cable secured to the first mentioned cable between the two rollers and passing down around the lower roller and over the lower roller of the side plate, and a weighted handle secured to the cable and adapted to counterbalance the shade.

5. The combination with a window frame, of elongated flat metal guides having offset end portions forming a securing portion, shade brackets having angular socket portion through which pass the brackets and having central horizontally extending vertically disposed plates having openings receiving the shade roller pintles, a roller secured to the frame above each bracket, two rollers above the center of the shade roller, a cable having its ends secured to the shade brackets and passing over the side roller and two center rollers, a cable secured to the first cable intermediate the two center rollers, and passing down below a center roller below the two center rollers and over a roller below one of the side rollers and extending down along the side of the window frame and a weighted handle carried thereby.

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

JOEL E. HALL.

Witnesses:

SMITH SIMS,
WILLIE HALL.