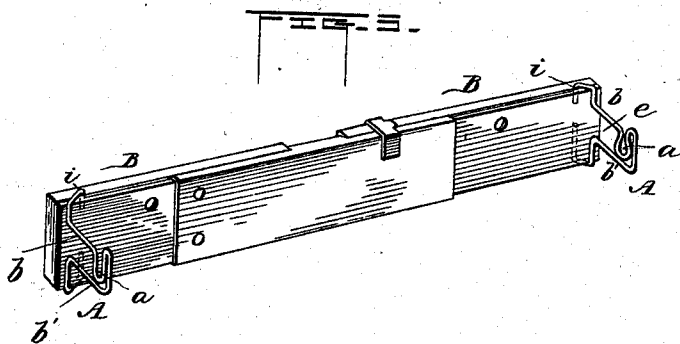
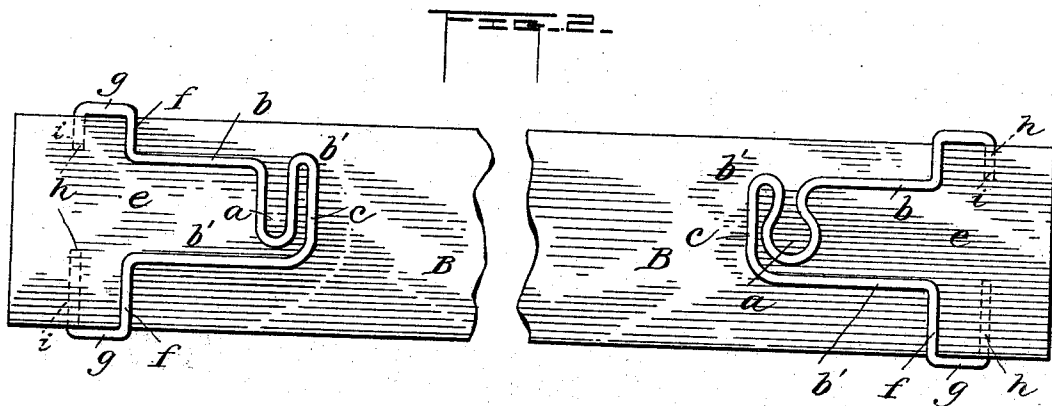
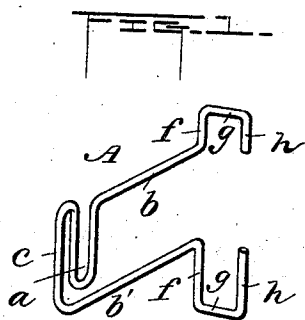


(No Model.)

A. B. DUNKLE.
WINDOW SHADE FIXTURE.

No. 513,610.

Patented Jan. 30, 1894.



Witnesses

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UNITED STATES PATENT OFFICE.

ABRAHAM B. DUNKLE, OF STEELTON, PENNSYLVANIA.

WINDOW-SHADE FIXTURE.

SPECIFICATION forming part of Letters Patent No. 513,610, dated January 30, 1894.

Application filed June 15, 1891. Serial No. 396,241. (No model.)

To all whom it may concern:

Be it known that I, ABRAHAM B. DUNKLE, a citizen of the United States of America, residing at Steelton, in the county of Dauphin and State of Pennsylvania, have invented certain new and useful Improvements in Window-Shade Fixtures, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to an improvement in brackets for carrying shade rollers, and is designed for attachment to the window shade holder shown in patents previously granted to me.

In Patent No. 428,332, granted to me on the 20th day of May, 1890, I have shown a roller carrying bracket provided with suitable wings secured by pivot nails or similar means to the top and bottom edges of a window shade strip adapted to fold against the same to economize space in shipment, but when it is desired to use the same it can be swung outward at right angles to the strip. In said patent the bracket is shown and described as made of sheet metal or like material having an apertured head for the reception of the end of the shade roller, and having wings attached to the upper and lower edges of the window shade strip by means of pivot pins.

The present invention is designed as an improvement upon the construction shown and described in said Letters Patent its object being to simplify the construction, materially lessen the cost of manufacture, and provide a device which can be more easily adjusted to position.

My invention therefore consists primarily of a shade roller bracket constructed of one piece of wire bent into proper form at the center for the reception of the end of the shade roller bent at its two ends to fit holes formed in the top and bottom of the window shade strip whereby swinging movement is given to it.

The invention, furthermore, consists of a bracket constructed of one piece of spring wire bent into proper form at its center for the reception of the end of the shade roller, and near its two ends being bent out of plane with the body part, to form loops the outer sides of said loops being adapted to fit holes

formed in the upper and lower edges of the window shade strip, thereby forming pivots upon which the bracket swings, the inner edges of said loops which are out of plane with the body part bearing against the face of the strip when the bracket is swung outward, thus preventing its being swung too far.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a shade roller bracket constructed in accordance with my invention, the wire being bent so as to form a vertical rectangular bearing seat for the end of the roller. It will be understood that the bracket for the other end of the roller will have a rounded bearing seat. Fig. 2 is a front face view of a bracket carrying a non-extension strip broken away in the middle, the bracket being shown as shut or laid down on the same. Fig. 3 is a perspective view of a window shade strip of an extensible construction with the brackets applied thereto and as swung outwardly in position for the reception of the window shade roller.

In these drawings, A, A, represent the roller brackets attached to a strip B, which is made separate from and adapted to be attached to the window frame by nails, screws, or in any suitable manner. This strip may be non-extensible, as shown in Fig. 2, that is adapted to a window frame of given width, or it may be made extensible as shown in Fig. 3, after the manner of the strip shown and described in Patent No. 398,137, granted to me February 19, 1889.

I do not limit myself to any particular kind of window shade strip, the present invention relating to the form and construction of the brackets A, A, which are similarly constructed and similarly attached to the strip so as to permit of their being laid down on the strip when not in use and of being swung or thrown out into position for use. Each bracket A, is formed of one piece of wire bent near the center to form the loop *a*, for the reception of the end of the shade roller, one of said loops being made approximately rectangular in form, the other being rounded at its lower end to form a round bearing for one end of said roller. From the upper end of the loop one of the parts *b*, of the wire extends in an ap-

proximately horizontal direction away from the loop, while the other b' , is bent around and downwardly as at c , and then extends horizontally in a direction approximately parallel with the part b . At the point d , the parts b, b' , are slightly twisted and bent to form loops e , the parts of said loops being marked f, g, h , respectively. Upon the upper and lower edges of the strip B , are formed holes i , into which the outer parts h , of the loops just described fit, thereby forming pivot points and permitting the swinging of the bracket to an outward position when it is desired to use it and to a position against the face of the strip when it is desired to store it or pack it for shipment. By having the loops e , formed out of plane with the body portion, the inner edge of said loops f , will, when the bracket is swung outwardly, bear against the face of the strip and act as a stop to prevent further movement of the bracket. The bracket is made of wire the space between the upper and lower loops being much narrower than the face of the strip, so that the portions b, b' , of the bracket have to be sprung

apart to enable the edges h , of the loops to be inserted in the holes, thereby insuring the bracket being firmly held in place upon the strip though allowing it free pivotal movement. One of the loops e , is made shorter than the other to allow of more ready insertion and removal of the bracket.

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

The combination with a window shade strip provided with bearings, of roller brackets, each made from a single piece of wire and comprising a body portion having a seat for the roller, and spring arms projecting therefrom and provided with terminal portions at substantially right angles thereto, and stops to limit the movement of the brackets; substantially as described.

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

ABRAHAM B. DUNKLE.

Witnesses:

PHILIP M. DÜRR,
FRANK KNODERER.