W. L. MARION.

WINDOW SHADE ROLLER.

APPLICATION FILED APR. 28, 1908.

928,060. Patented July 13, 1909.

Fig. 1.

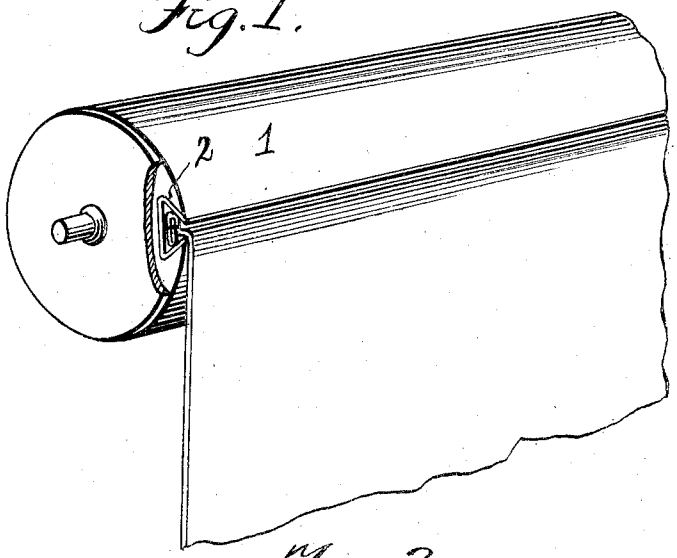


Fig. 2.

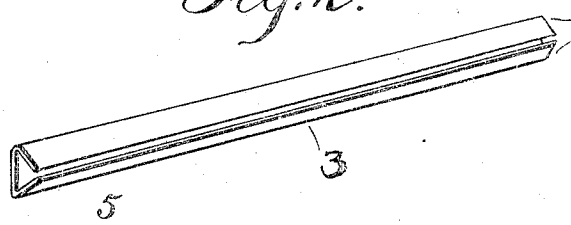


Fig. 5.

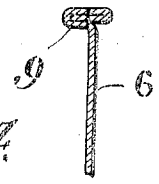


Fig. 3.

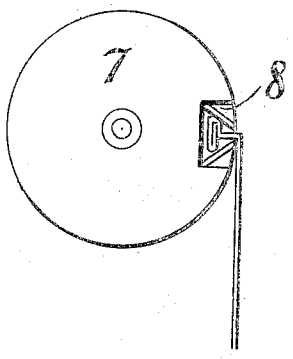
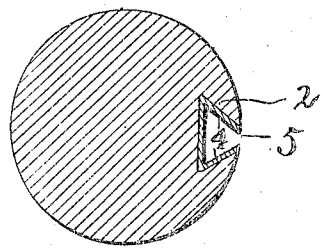


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM L. MARION, OF JERSEY CITY, NEW JERSEY.

WINDOW-SHADE ROLLER.

No. 928,060. Specification of Letters Patent. Patented July 13, 1909.

Application filed April 28, 1908. Serial No. 429,750.

To all whom it may concern:

Be it known that I, WILLIAM L. MARION, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented new and useful Improvements in Window - Shade Rollers, of which the following is a specification.

This invention relates to improvements in window shade rollers and shade attaching devices therefor, the object of the invention being to provide the window shade roller with means whereby the shade may be readily attached to and detached from the roller and the use of tacks or other fastening devices obviated and the said invention consists in the construction and arrangement of devices hereinafter described and claimed.

In the accompanying drawings:—Figure 1 is a perspective view of a portion of a window shade roller embodying my improvements, also showing a portion of the shade attached to the roller. Fig. 2 is a detail perspective view of the shade securing strip. Fig. 3 is an end elevation of the roller, showing the shade attached thereto. Fig. 4 is a detail transverse sectional view of the roller showing the shade attaching strip in place therein. Fig. 5 is a detail section of the upper portion of the shade.

The roller 1 which may otherwise be an ordinary spring roller is, in accordance with my invention, provided in one side with a dove-tailed groove, recess or chamber 2 which extends from end to end thereof and opens at one side of the roller. I also provide a shade attaching strip 3 which is made of sheet metal and is bent in triangular form, transversely, of a size and shape to enable such strip to be inserted in the groove 2 of the roller. The side walls 4 of such strip converge but do not come in contact with each other and when the said strip is in place in the groove 2, the outer edges of such converging side walls extend to the surface of the roller and a slot 5 is formed between such edges to receive the window shade 6.

The usual journal disks or caps 7 on the ends of the rollers keep the strip 3 in place and one of such caps has a notch 8 in one side which may be turned into and out of register with one end of the strip so as to cover or uncover such end of the strip as may be desired. When the said notch uncovers said end of the strip, the shade may be attached to or detached from the roller in the manner hereinafter described. The upper end of the shade is doubled to form a double seam or folds which present flanges or ribs that project from opposite sides of the plane of the shade, the doubled portions of the shade being stitched together at a point midway between the outer edges of said flanges or ribs, as indicated at 10, in Fig. 5, the said doubled portion of the shade forming a stop or enlargement 9. The said double seam is adapted to be placed in the strip 3 by inserting the shade in the slot 5 of such strip and moving such shade endwise with reference to the roller as will be understood and the said double seam or stop device by coming in contact with the outwardly converging side walls of the strip serves to securely fasten the shade to the roller. In order to remove the shade from the roller, it is only necessary to first uncover one end of the strip and to then draw the shade out from the roller. Practically the cap having the notch 8 may be secured so as to have such notch always in register with and uncovering one end of the strip as there is little or no tendency of the shade to become withdrawn from the roller when the shade is in use.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent is:—

1. The combination of a shade having a stop at one end, a roller having a longitudinal groove in one side presenting outwardly converging side walls extending longitudinally of the roller for the reception of the shade and adapting the stop device of the shade to be placed in the said strip and between said outwardly converging walls, and journaled disks or caps on the ends of the roller, one of said disks or caps being partially revoluble on the roller having a notch in one side of sufficient size to uncover one end of said fastening strip when turned to register with said notch.

2. A roller having a longitudinal groove in one side presenting outwardly converging walls and a slot between said walls narrower than said groove, in combination with a shade extending through said slot and pro-

vided at its inner or upper end with a doubled portion forming folds presenting oppositely extending ribs or flanges to bear against the sides of said groove and prevent casual detachment of said shade, said folds being stitched together at a point midway between their outer edges.

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

WILLIAM L. MARION.

Witnesses:
S. ROWLAND,
EDITH I. HILL.