Oct. 20, 1925. 1,557,673

C. G. DUNLAP ET AL

SHADE ROLLER

Filed Oct. 18, 1923

Fig. 1.

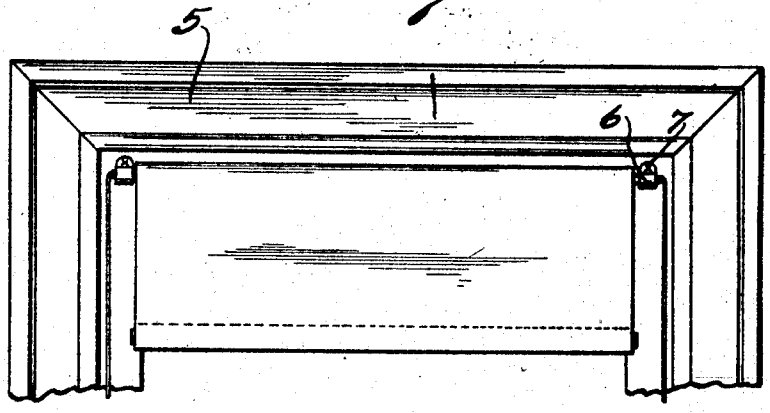


Fig. 2

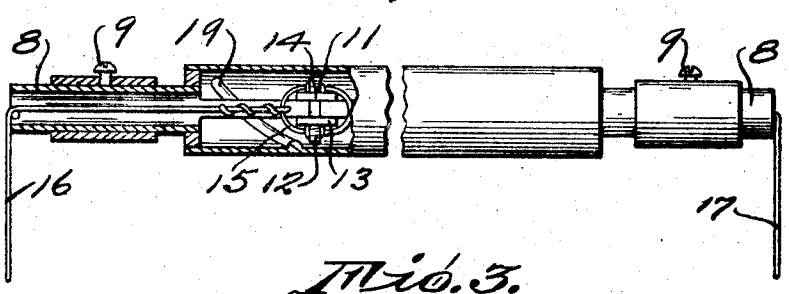
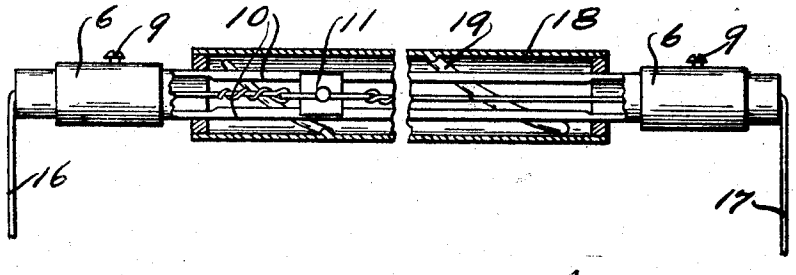


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHARLES G. DUNLAP AND ANDY WITTEN, OF NORTH TAZEWELL, VIRGINIA.

SHADE ROLLER.

Application filed October 18, 1923. Serial No. 669,290.

To all whom it may concern:

Be it known that we, CHARLES G. DUNLAP and ANDY WITTEN, citizens of the United States, residing at North Tazewell, in the county of Tazewell and State of Virginia, have invented certain new and useful Improvements in Shade Rollers, of which the following is a specification.

This invention relates to improvements in shade rollers.

An important object of the invention is to provide a shade roller capable of very fine adjustment permitting the shade to hang in any desired position.

A further object of the invention is to provide a shade roller which is practically indestructable and of simple yet durable construction, having no springs or delicate mechanism which might easily become worn or broken.

Other objects and advantages of this invention will be apparent during the course of the following description.

In the accompanying drawing forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a partial view of a window frame showing the device secured thereto.

Figure 2 is a side elevation of the device partly in section, and

Figure 3 is a similar view showing the device in different adjustment.

In the drawing, wherein for the purpose of illustration is shown the preferred embodiment of our invention, the numeral 5 designates a window frame which may be of any preferred construction. A pair of supporting clips 6 are secured to the window frame 5 by means of screws 7 or the like. In order that the sleeve 8 may be held stationary within the clips 6, a set screw 9 is threadedly connected to the clips 6 in such a manner as to rigidly engage the sleeve 8 and prevent movement thereof.

The central portion of the sleeve 8 is so constructed as to form a pair of runners 10 which are adapted to carry a sliding block member 11. This sliding block member may be of any suitable construction. In the form shown it is constructed of a threaded bolt member 12 which receives the nuts 13 and 14 at its extremities, and carries a wire loop 15 which passes through openings in the threaded bolt 12. Secured to the loop 15, are control lines 16 and 17 which serve to pull the sliding block 11 along the runners 10. The shade is carried by a cylindrical member 18 which rotates upon the inner sleeve 8, as a spiral bar 19 formed therein, comes in contact with the sliding block 11.

In operation, the clip members 6 are mounted upon the extremities of the sleeve 8, the device being then secured to the window frame. The control lines 16 and 17 issue from the extremities of the sleeve 8 and depend along the sides of the window being secured near the bottom of the frame to a pair of winding knobs (not shown).

To raise or lower the shade one or the other of the control lines is pulled downwardly and when the proper adjustment is secured, the lines are wound about the stationary knobs. This device accomplishes a vast improvement in shade rollers inasmuch as better adjustment of the window shade may be secured.

It is to be understood that the form of our invention herewith shown and described is to be taken as a preferred example of the same, and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of our invention, or the scope of the subjoined claim.

Having thus described our invention, we claim:

A shade roller structure comprising a cylinder provided upon its inner surface with a spirally disposed guide, sleeve members entering the ends of the cylinder and upon which the cylinder is journaled for rotation, parallel spaced members traversing the length of the cylinder and connected with the sleeve members, a block slidably mounted upon the runners and housed within the cylinder, a member carried by the block and engageable with the spirally disposed member of the cylinder and flexible elements connected at their ends with the block and extending through the sleeves.

In testimony whereof, we have affixed our signatures.

CHARLES G. DUNLAP.
ANDY WITTEN.