

G. R. GRIGG.
SHADE ROLLER.

APPLICATION FILED NOV. 25, 1911. RENEWED JAN. 20, 1913.

1,054,535.

Patented Feb. 25, 1913.

Fig. 1,

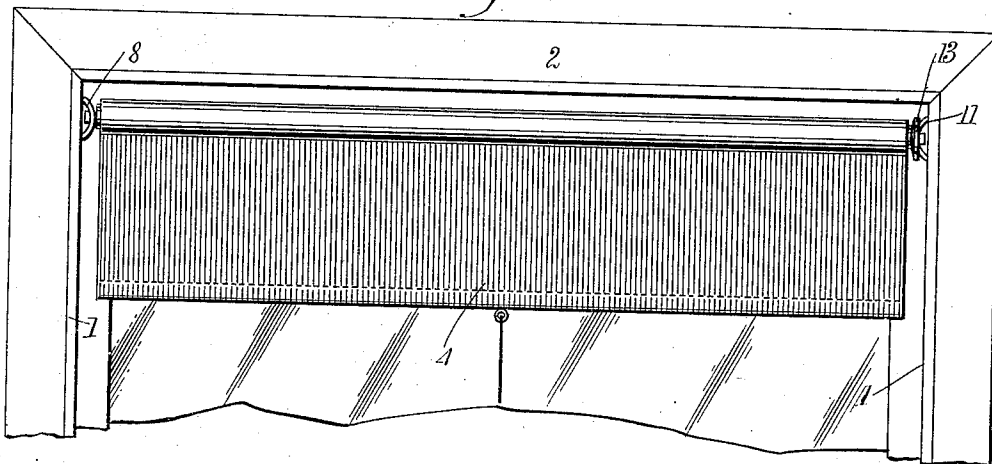


Fig. 2,

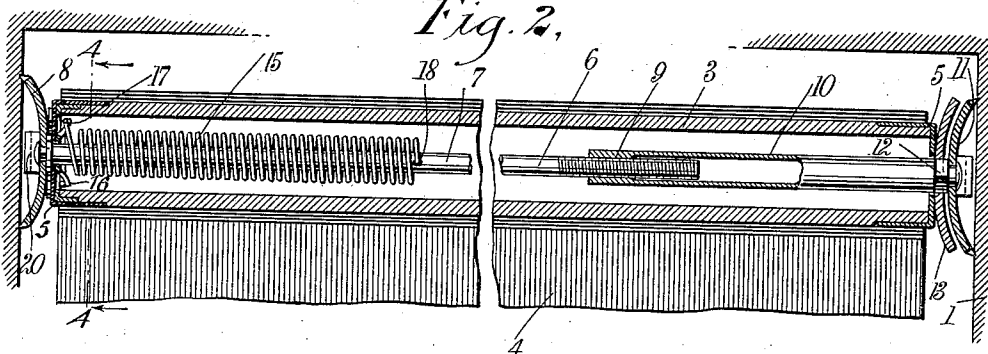


Fig. 3,

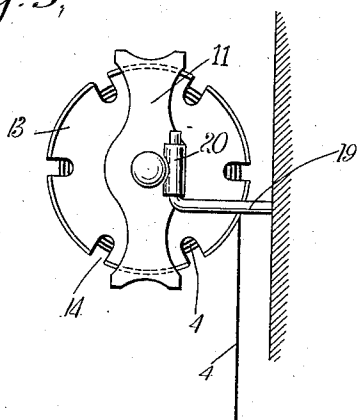
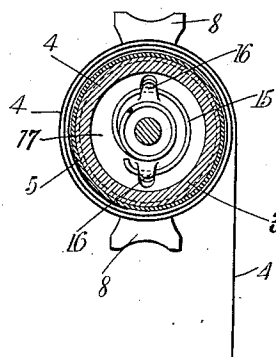


Fig. 4,



WITNESSES

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GEORGE RENNIE GRIGG, OF COFFEYVILLE, KANSAS.

SHADE-ROLLER.

1,054,535.

Specification of Letters Patent.

Patented Feb. 25, 1913.

Application filed November 25, 1911, Serial No. 662,353. Renewed January 20, 1913. Serial No. 743,207.

To all whom it may concern:

Be it known that I, GEORGE R. GRIGG, a citizen of the United States, and a resident of Coffeyville, in the county of Montgomery and State of Kansas, have invented a new and Improved Shade-Roller, of which the following is a full, clear, and exact description.

My invention relates to a new and improved form of shade holder.

It is well known that in order to put up the form of shade rollers now on the market, it is necessary to place brackets at both ends of the framework of a window, which requires nailing or screwing to support them, thereby defacing the framework and causing a great deal of annoyance and inconvenience in placing the shades in position, and in adapting the shades to fit different sized windows. Further, with the shades now in common use, it is very inconvenient to lower the window from the top, as the draft causes the shade to rustle, and if the fit is at all tight, it is almost impossible to ventilate the room by this means.

An object of my invention is to eliminate these objections, by constructing a shade which may be accurately and readily adjusted in place without the use of any screws or nails or any other attachments.

A further object of my invention is to so construct and arrange the shade that it may be placed at any position on the framework of the window, so as not to interfere with the opening of the window for ventilation or other purposes.

A further object of my invention is to so construct the shade roller that it may be attached to any sized window and may be affixed to the framework irrespective of the material of which it is constructed.

With the above and other objects in view, as will more fully hereinafter appear, the present invention consists in certain novel details of construction and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and more particularly pointed out in the appended claims.

I attain the above outlined objects by journaling within the shade roller, a rod composed of two telescoping parts, one of said parts having an external means for changing the length of said rod to fit different sized window openings, the outer ends of the rod parts terminating in spring

brackets adapted to hold the shade roller in position within the window opening.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a front elevation showing the top of the framework of a window with my improved roller in position; Fig. 2 is a vertical sectional view taken axially through my roller, certain parts being shown in elevation; Fig. 3 is an end view looking at the right of the device shown in Fig. 2 but mounted upon a bracket, and Fig. 4 is a transverse sectional view taken on the line 4—4 of Fig. 2 and looking in the direction of the arrow.

In the several figures, I have shown uprights 1 of the framework 2 of the ordinary form of window. Positioned at any desired point between the uprights, is the improved shade roller forming the subject-matter of my invention. This shade roller comprises a cylindrical tube 3, about which is wrapped, in any suitable manner, the curtain 4. The tube 3 is closed at each end by means of closing caps 5, which afford a bearing for the axially disposed rod 6. This rod comprises two telescoping parts, one part 7 extending beyond the adjacent end of the tube, having rigidly fastened thereto, an arch-shaped spring plate 8, the opposite end of which part 7 is screw-threaded and engages within the screw-threaded end 9 of the co-acting hollow part 10 of the rod 6. This part 10 is loosely in engagement with a spring plate 11 corresponding in structure and thickness to the plate 8.

In order to rotate the part 10 relative to the part 7 of the rod 6, the outer end of the part 10 terminates in a square head 12, which square head is engaged by a hand wheel 13 having notches 14 in the periphery thereof, by means of which notches the wheel may be rotated so as to vary the length of the rod 6, to fit any desired window opening.

In order to hold the tube resiliently in engagement with the rod 7, a coil spring 15 encircles the part 7 of the rod 6, and has one end in engagement with the diametrically extending fingers 16 projecting from a plate 17, which plate is loosely mounted on the part 7 but rigidly connected to the adjacent closing cap 5. The opposite end

of the spring 15 is rigidly connected at 18 with the part 7 of the rod 6, by which construction of the spring 15, it can act as the spring controlled shades now in general use.

5 If desired, the roller may be mounted upon a bracket 19, as shown in Fig. 3, which bracket engages a socket 20 carried by the plates 8 and 11.

10 The roller is disposed between the up-rights with the rod 7 held by gripping the body of the shade and rotating the wheel with its attached tube 10 until the spring plates 8 and 13 are in firm engagement with their adjacent uprights.

15 Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. The combination of a cylindrical tube adapted to carry a curtain, a two-part rod 20 within said tube and rotatably supporting the same, an arch spring plate fastened centrally to each end of said rod adapted to

hold said tube between supporting uprights, and means exterior of the tube for adjusting the length of said rod to place said plates 25 under tension.

2. The combination of a rod comprising a tube having a spring fastening plate on one end thereof and a square head adjacent said plate, a rod in threaded engagement 30 with said tube, said rod having a fastening plate pivoted to its outer end, and a hand wheel mounted on said square head to rotate said tube relative to said rod, thereby to cause said plate to engage a support and 35 a roller loosely mounted on said tube and rod.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE RENNIE GRIGG.

Witnesses:

B. W. HOLLAND,

EARL J. MILLER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."