

A. V. CHALLINOR.
WINDOW SHADE.
APPLICATION FILED FEB. 10, 1910.

1,032,112.

Patented July 9, 1912.

FIG. 1

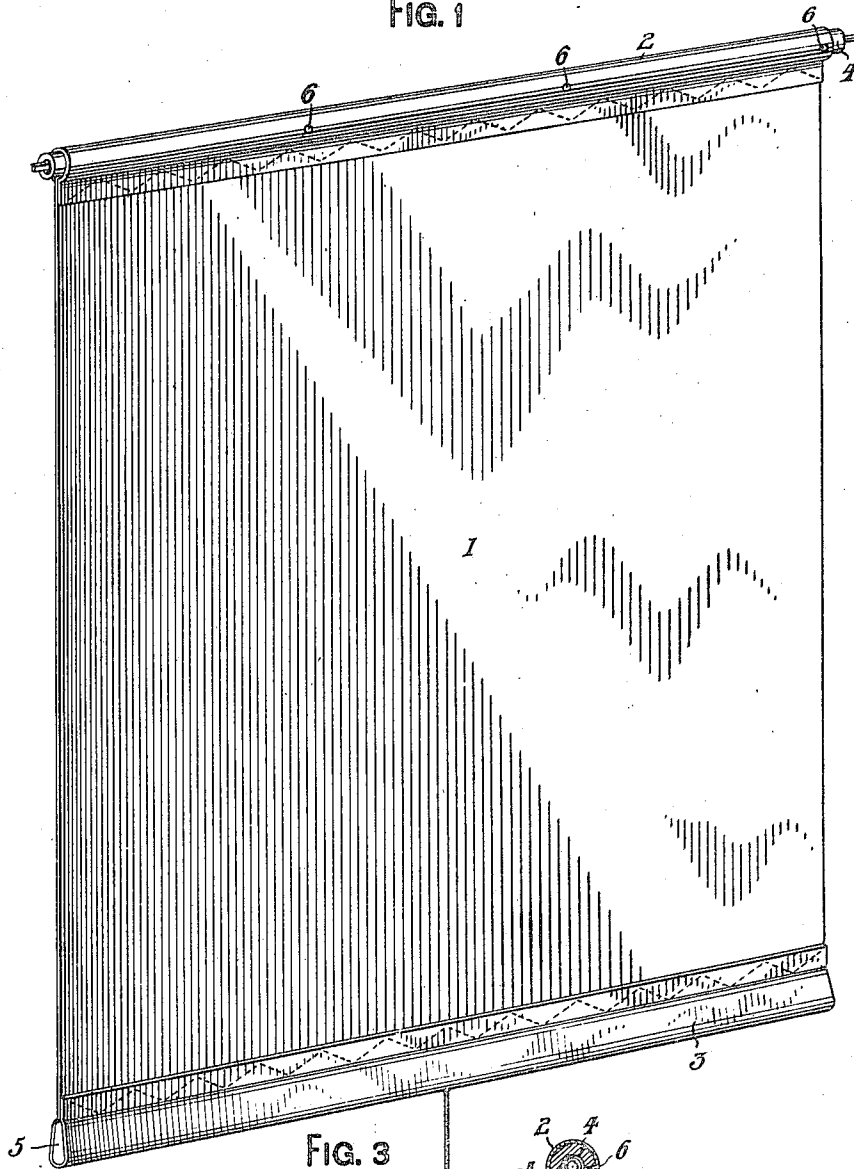
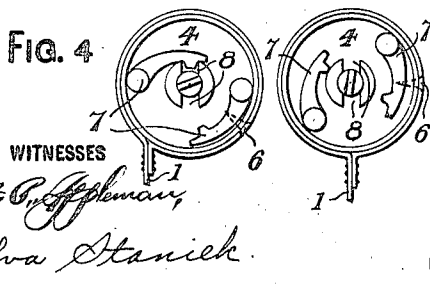


FIG. 3

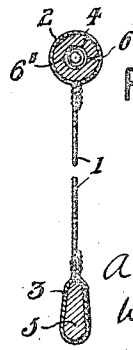
FIG. 4



WITNESSES

J. C. Applemann,
Eva Stanick.

FIG. 2



INVENTOR

A. V. Challinor
by *T. N. Barber*
his attorney

UNITED STATES PATENT OFFICE.

ARTHUR V. CHALLINOR, OF PITTSBURGH, PENNSYLVANIA.

WINDOW-SHADE.

1,032,112.

Specification of Letters Patent.

Patented July 9, 1912.

Application filed February 10, 1910. Serial No. 543,014.

To all whom it may concern:

Be it known that I, ARTHUR V. CHALLINOR, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Window-Shades, of which the following is a specification.

My invention relates to window shades in combination with rollers therefor, and its objects are to prevent window shades from becoming detached from their rollers; to enable a soiled or torn shade to be reversed end for end, or edge for edge quickly without its hanging crooked and without squaring the material; to avoid the use of so many tacks as are usually employed; to avoid the use of tacks in that part of the roller which contains the spring; and to cover the roller so that it will not show when the shade is entirely down.

Referring to the accompanying drawings, Figure 1 is a perspective of my invention; Fig. 2 a vertical section thereof, partly broken away; and Figs. 3 and 4, end views of the roller and shade in different positions.

On the drawings, 1 is a window shade made of cloth or other flexible material. It has at its opposite ends the hems 2 and 3, which are of such a size that either hem will receive the roller 4 or the slat 5. On the drawing, the roller 4 is shown in the top hem 2 to which it is secured by the short tacks 6. The hems extend across the ends of the shade. When the shade is pulled all the way down as shown, any further force downward on the shade has no tendency to rotate the roller and there is no strain on the tacks to pull them out or to tear the shade away from the tacks. The hem also gives the shade a better appearance as the roller is concealed, preventing the display of wood and the usual directions pasted thereon. I use but few tacks because there is comparatively little strain on them, and thus lessen the chances of the tacks engaging the spring 6 which is usually found in shade rollers. Preferably no tacks are used in that part of the roller where the spring is. When it is desired to turn the shade inside out, the tacks are withdrawn, and the shade is slid off the roller, reversed sidewise, slid again on the roller, and tacked thereto. The change is quickly effected as

there is but little to be done except reverse the shade side for side.

If the bottom of the shade becomes soiled or torn, and it is desired to reverse the shade end for end, this can be readily done by the exchange or interchange of the hems with the roller and slat, so that the roller will be in the hem 3 and the slat in the hem 2.

In setting the tacks, care should be taken that the pawls 7 on the end of the roller are not in locking position in their slots 8 when the shade is pulled all the way down. Fig. 3 shows the shade pulled all the way down and neither pawl in locking position. When the shade is slowly released from the position shown in Fig. 3, the roller will reverse slightly and the upper pawl will engage in the upper locking slat as shown in Fig. 4. To raise the shade from the position shown in Fig. 4, the shade is pulled to the position shown in Fig. 3 and quickly released in the usual manner, whereupon the roller acquires speed enough to prevent the pawl locking immediately or until desired.

I claim—

1. The combination, with a shade having a hem at each end, the two hems being of equal size, of a roller and a slat, each being of the size to substantially fit in either one of the hems, whereby the ends of the shade may be reversed with respect to the roller and the slat, and means for securing together the roller and the hem associated therewith so that the rotation of the roller in one direction will wind the shade thereon.
2. The combination of a shade roller on which the shade may be wound, a shade having a hem in which the roller is positioned, means for securing the hem to the roller so that the rotation of the roller in one direction will wind the shade thereon and so that when the shade is entirely unwound it will be held on the roller by the hem, and a second hem on the shade of a size to receive the roller when the shade is reversed end for end.

Signed at Pittsburgh, Pa., this 8th day of February 1910.

ARTHUR V. CHALLINOR.

Witnesses:

F. N. BARBER,
ANNA R. BEATTY.