

T. X. JONES.
SHADE ADJUSTER.
APPLICATION FILED SEPT. 9, 1908.

936,779.

Patented Oct. 12, 1909.

Fig. 1.

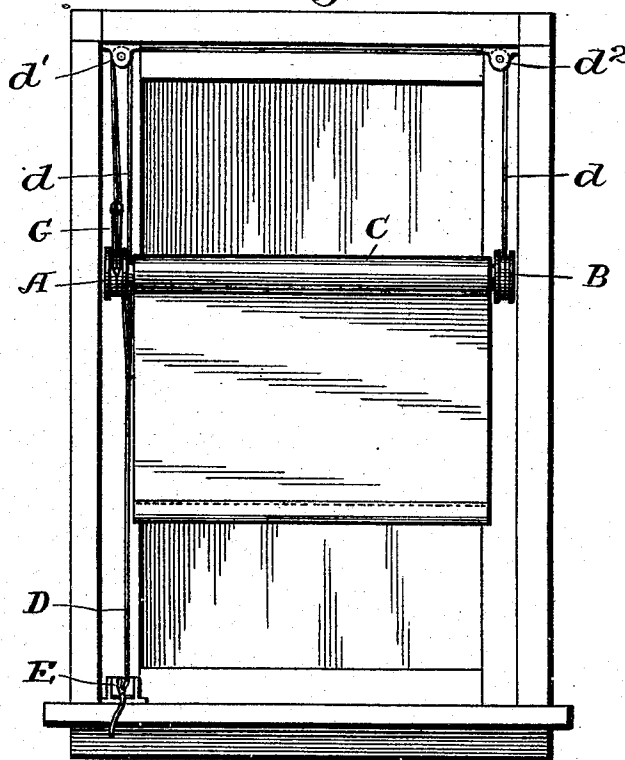


Fig. 4.

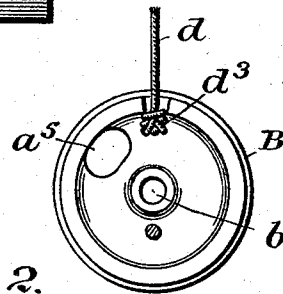


Fig. 2.

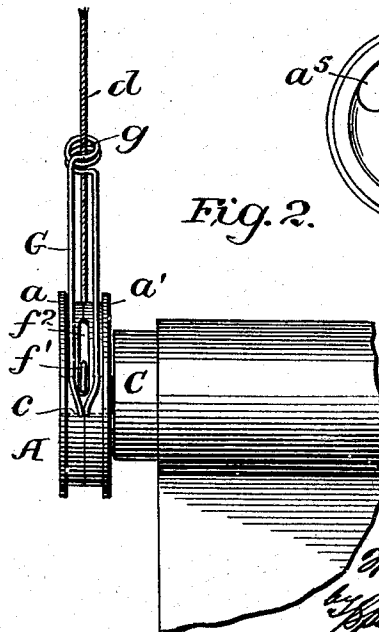
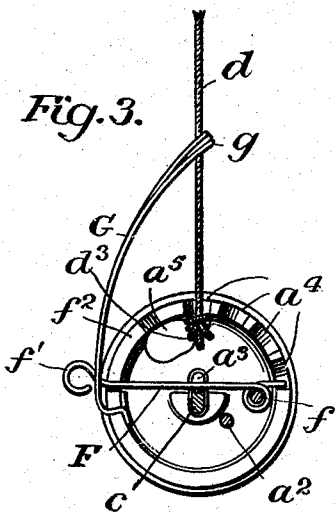


Fig. 3.



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UNITED STATES PATENT OFFICE.

THOMAS X. JONES, OF COLUMBUS, OHIO, ASSIGNOR TO RICHARD S. JONES, OF RACINE, WISCONSIN.

SHADE-ADJUSTER.

936,779.

Specification of Letters Patent.

Patented Oct. 12, 1909.

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To all whom it may concern:

Be it known that I, THOMAS X. JONES, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Shade-Adjusters, of which the following is a specification.

My invention relates to adjusters for the roller shades of windows and other openings, and has for its objects the improvement of the construction of the end pieces or blocks to which the shade roller is attached; the provision of improved latching or securing means for the spring stem of the shade roller; the provision of simple and efficient means to prevent turning of the end block to which the spring stem of the shade roller is attached when the shade is manipulated; and to combine such elements into a complete and efficient structure and combination.

The invention consists in the novel construction and combination of parts herein-after set forth, and shown in the accompanying drawings which illustrate a preferred embodiment thereof.

In the drawings, Figure 1 is a view in elevation showing a window equipped with my improved shade adjuster; Fig. 2 is an enlarged view showing in front elevation the end block for the spring stem of the roller; Fig. 3 is a side view of a half of the same end block showing the interior construction and arrangement of parts; and Fig. 4 is a similar view of a half of the block for the other end of the shade roller.

Referring to the drawings, A and B are the end pieces or blocks for the shade roller C, these blocks being raised and lowered by means of a cord D and branch cords d^1 , which latter pass over double pulley d^2 and pulley d^3 on the window frame and are attached to said end blocks. Cord D is secured after adjustment by automatic pulley E, which forms the subject of a separate application for patent. The end block A is preferably formed in two annular flanged parts a , a^1 of cast metal, so that when fitted together and secured by a rivet a^2 they present a box-like structure having a central chamber. One or both parts has an aperture or slot a^3 to receive the spring stem c of the shade roller, which is held therein against revolution. Spring stem c is notched on one edge, as shown in Fig. 3, to receive

the spring latch F which is mounted upon a pin or stud f and formed with an operating end f^1 extending through slot f^2 in the wall of the block. The peripheral wall of block A is provided with one or more apertures a^4 , in any one of which the suspension cord d may be secured, and one or both side walls of the block may be provided with an aperture a^5 through which the end of the cord is drawn and knotted, and the knot, shown at d^3 , drawn back into the chamber of the block out of sight.

In order to prevent rotation, or oscillation back and forth, of block A when the shade is manipulated, I provide an arm G attached to the block at one side of the vertical of, and at an angularly distant point from, the point of attachment of cord d . This arm G preferably consists of spring wire formed with a loop g through which cord d passes, and with the limbs from the loop curved and let inwardly through a hole in the side of the block, where they are secured. The other end block B, a half of which is shown in Fig. 4, is formed with a round bearing hole b to receive the roller pintle (not shown), which preferably consists of a screw the head of which is countersunk in the block. The latch F is not needed, and as block B has no tendency to rotate, arm G is not required at this end. Otherwise this block is similar to block A.

The operation of the device is obvious from the foregoing description. Blocks A and B, and hence the shade roller, are adjusted simultaneously to the desired height by means of cord D. When the roller is drawn up close to its support at the top of the window, spring G is compressed or bowed and will not limit the upward movement. When it is desired to remove the roller, the latch F is raised by means of handle f^1 out of the notch in spring stem c of the roller, and the stem is then removed from said block. Block B is removed by taking out the pintle at that end of the roller.

It is obvious that various features of my improvement may be useful in other combinations, and that many changes in details of construction and arrangement of parts may be made without departing from the invention, and these, I wish it to be understood, fall strictly within the scope thereof.

Having described my invention, what I

claim as new and desire to secure by Letters Patent of the United States, is—

1. In a shade adjuster, an end block for the shade roller formed with a central chamber apertured to receive the spring stem of the roller, and a latch mounted within said chamber for engagement with said stem and extending without said chamber.
2. In a shade adjuster, an end block for the shade roller formed with a central chamber the lateral walls whereof are apertured to receive the spring stem of the roller, and a spring latch mounted within said chamber for engagement with said stem and having an operating end extending through a slot in said chamber wall.
3. In a shade adjuster, an end block for the shade roller comprising cooperating portions formed to present a flattened box-like structure when fitted together, the periphery of said structure having at least one opening to receive a suspension cord, and a side wall being provided with an aperture to receive a roller stem and a second aperture through which the knotted end of said cord may be drawn within the structure.
4. In a shade adjuster, an end block for the shade roller formed with a central chamber the lateral walls whereof are apertured to receive the spring stem of the roller, and means for holding said stem within said aperture, the periphery of said end block having a plurality of openings any one of which may receive a suspension cord where-

by said block may be supported in different positions.

5. In a shade adjuster, the combination with a shade roller, of end blocks therefor, one of said end blocks being formed with a central chamber apertured to receive the spring stem of the roller, a latch mounted within said chamber for engagement with said stem and extending without said chamber, and means for adjustably supporting said end blocks.

6. In a shade adjuster, an end block for the shade roller formed to receive the spring stem of the roller, said block provided with securing means for a suspension cord, and a spring arm attached to said block extending into the path of said suspension cord for engagement therewith and arranged to be compressed by contact with a support.

7. In a shade adjuster, an end block for the shade roller formed to receive the spring stem of the roller, a suspension cord attached to the periphery of said block, and a spring arm attached to said block at a point circumferentially distant from said suspension cord attachment and curving up over said end block into engagement with said cord at a distance from said block.

In testimony whereof I have affixed my signature, in presence of two witnesses.

THOMAS X. JONES.

Witnesses:

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