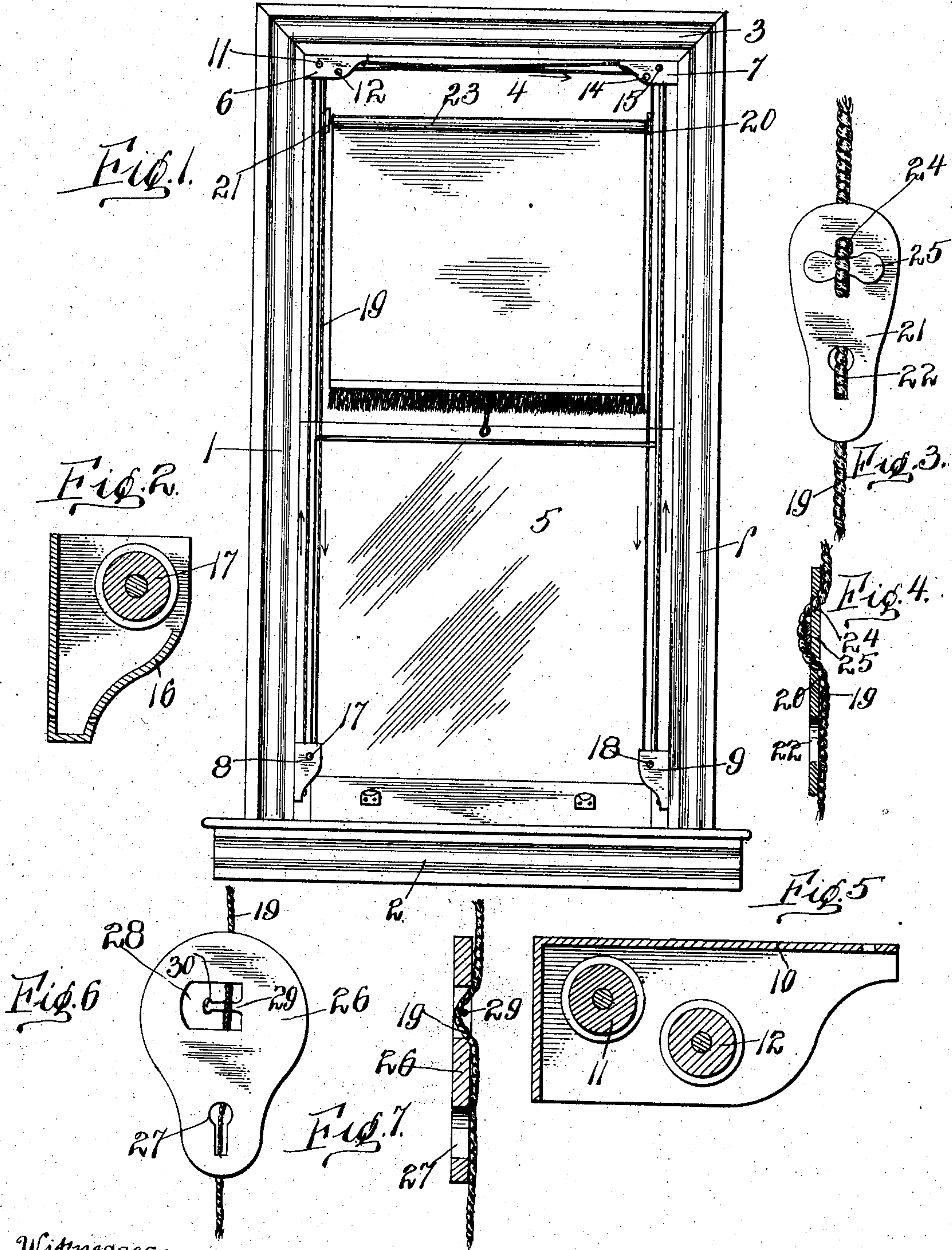


No. 833,804.

PATENTED OCT. 23, 1906.

A. A. SCHRAMM.  
WINDOW SHADE ADJUSTER.  
APPLICATION FILED APR. 27, 1906.



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# UNITED STATES PATENT OFFICE.

ANDREW A. SCHRAMM, OF McKEES ROCKS, PENNSYLVANIA.

## WINDOW-SHADE ADJUSTER.

No. 833,804.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed April 27, 1906. Serial No. 313,931.

*To all whom it may concern:*

Be it known that I, ANDREW A. SCHRAMM, a citizen of the United States of America, residing at McKees Rocks, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Window-Shade Adjusters, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in window-fixtures, and the invention relates more particularly to the adjustment of a window-shade roller in a window-frame.

The primary object of this invention is the provision of novel means for easily and quickly adjusting a shade-roller in a window-frame, whereby a shade of less depth than the window-frame can be adjusted to any part of the window-frame to shade the light passing through the same.

Another object of this invention is the provision of novel means whereby a window-shade roller can be easily and quickly mounted in a window-frame without necessitating the use of a step-ladder or similar elevating object, but permit of the curtain-shade roller being positioned at the upper end of the frame.

A further object of this invention is the provision of novel means for detachably supporting a curtain-shade roller in a window-frame.

A still further object of this invention is to provide a fixture for a window-frame which will be extremely simple in construction, strong and durable, and comparatively inexpensive to manufacture.

With the above and other objects in view, which will more readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described and claimed; and, referring to the drawings accompanying this application, like numerals of reference designate corresponding parts throughout the several views, in which—

Figure 1 is a front elevation of a window-frame equipped with my improved fixture. Fig. 2 is a vertical sectional view of a pulley or sheave used in connection with my improved fixture. Fig. 3 is a front elevation of a curtain-shade-roller hanger used in connection with the fixture. Fig. 4 is a vertical

sectional view of the same. Fig. 5 is a longitudinal sectional view of another set of pulleys or sheaves used in connection with the fixture. Fig. 6 is a front elevation of a hanger, illustrating a slight modification of the hanger illustrated in Figs. 3 and 4 of the drawings. Fig. 7 is a vertical sectional view of the same.

In the accompanying drawings I have illustrated a window-frame as consisting of side rails 1 and 1', a sill 2, and a top rail or lintel 3, the window-frame having two sashes 4 and 5 adjustably mounted therein.

My invention resides in providing the window-frame with a fixture consisting of two sets of sheaves or pulleys 6 and 7 and single sheaves or pulleys 8 and 9, the sheaves or pulleys 6 and 7 being secured to the underneath edge of the top rail 3 at the ends thereof, while the single sheaves or pulleys 8 and 9 are secured to the lower inner edges of the rails 1 and 1'.

The set of sheaves or pulleys 6 comprise a casing 10, having grooved wheels 11 and 12 journaled therein, the set of pulleys or sheaves 7 being similar to the set described; but for the sake of clearness I have designated the grooved wheels thereof 14 and 15. The single sheaves or pulleys are identical and comprise casings 16 16, having grooved wheels 17 and 18 journaled therein.

An endless cord or cable 19 passes over the various grooved wheels, the cable passing upwardly along the rail 1', over the wheel 15 of the set of sheaves or pulleys 7, over the wheel 12 of the set of sheaves or pulleys 6, downwardly over the wheel 17 of the single sheave 8, upwardly over the grooved wheel 11 of the set of sheaves 6, over the grooved wheel 14 of the set of sheaves 7, and downwardly over the grooved wheel 18 of the single sheave 9, the endless cable passing around three edges of the window-frame.

In conjunction with the cable 19 I use hangers 20 and 21, these hangers being preferably constructed of metal and are identical in construction with the exception that the lower end of one hanger is provided with a "keyhole-shaped" slot 22, while the lower end of its associate hanger is simply provided with a circular opening to accommodate the ends of a curtain-shade roller 23. The upper ends of the hangers are slotted, as at 24 24, and the innermost strands of the cable 19 are moved into said openings and a pin or plate 25 inserted between the cable 19 and the



hangers, thereby fixing the hangers upon the innermost strands of the cable 19.

In Fig. 6 of the drawings I have illustrated a slight modification of the hangers 20 and 21, wherein a plate 26 is employed, the lower end of the plate being slotted, as at 27, to accommodate one end of the curtain-shade roller 23, while the opposite end of the plate is provided with an opening 28. From one side wall of the slot 28 projects an integral arm 29, formed with a head 30. This construction permits the cord 19 to be readily looped over the headed arm 29, thus avoiding the threading of the cord through the slots 24. (Shown in Figs. 3 and 4.)

By referring to Fig. 1 of the drawings it will be observed that the strands of the cable 19 at the upper edge of the window-frame cross one another, whereby when the innermost strand of the cable at the right-hand side of the frame is pulled downwardly a similar movement will be imparted to the innermost strand upon the left-hand side of the frame, thereby simultaneously lowering the hangers 20 and 21 and moving the curtain-shade rollers 23 evenly within the window-frame. A downward pull upon either one of the outer strands of the cable 19 will raise the curtain-shade roller 23, and by the novel arrangement of the cable 19 I am enabled to easily and quickly adjust the curtain-shade roller to any desired position within the window-frame, while the curtain-shade of the roller can be raised and lowered independently of the cable 19.

I do not care to confine myself to the type of window-frame in connection with which my improved window-fixture is used or to the size and minor details of construction, as such changes as are permissible by the appended claim may be resorted to without departing from the spirit and scope of the invention.

What I claim, and desire to secure by Letters Patent, is—

The combination with the window-frame, of the casings 6, 7, attached to the frame at the upper corners thereof, a pair of pulleys mounted within and inclosed by each of said casings and having their axis on different horizontal planes, casings 8, 9, attached to the frame at the lower corners thereof, and a single pulley within and inclosed by each of said casings 8, 9, a single endless cord passing over the pulleys in casings 8, 9, and doubled to form two vertical continuous strands at each side of the window-frame and passing over each of the pulleys in casings 6, 7, a shade-roller, hangers receiving the pintles of said shade-roller and threaded onto the inner vertical strands of said endless cord, and a pin carried by the hangers for holding the same in adjusted position on the endless cord.

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

ANDREW A. SCHRAMM.

Witnesses:

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E. E. POTTER.