(No Model.)

E. M. WINFREY.

CURTAIN FIXTURE.

No. 589,542. Patented Sept. 7, 1897.

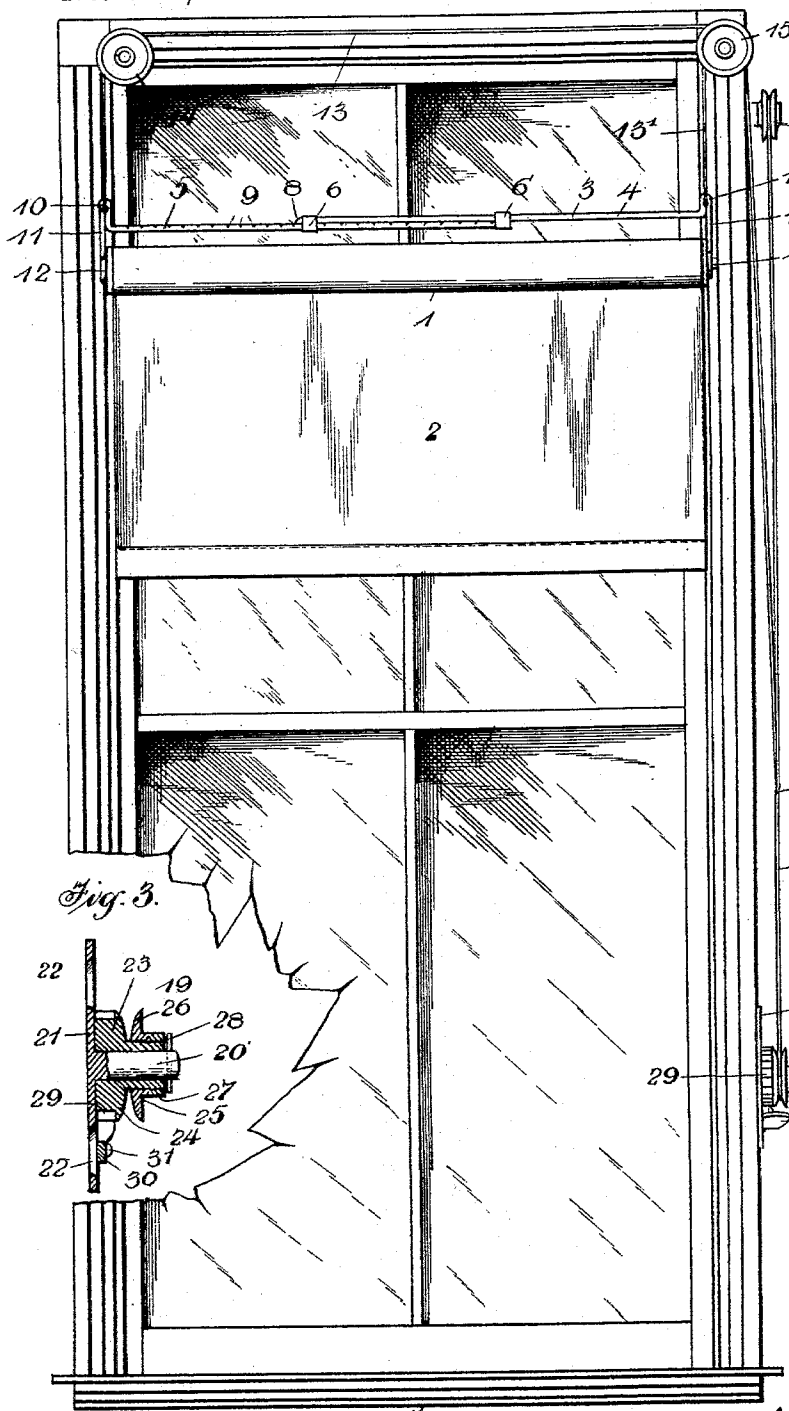


Fig. 1.

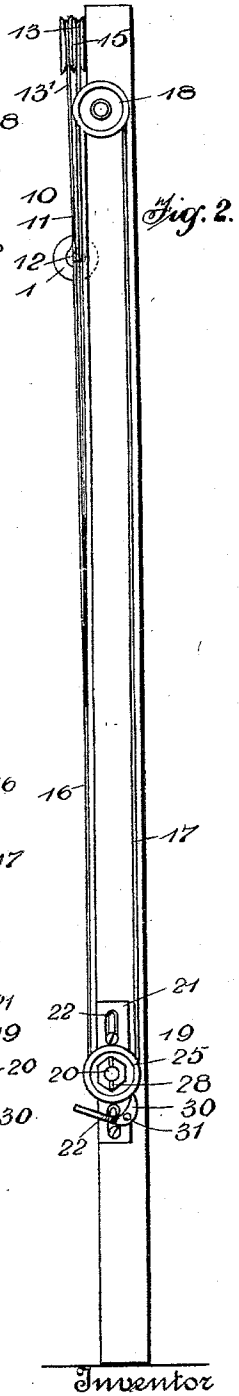


Fig. 2.

Fig. 3.

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UNITED STATES PATENT OFFICE.

EDGAR M. WINFREY, OF WICHITA FALLS, TEXAS.

CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 589,542, dated September 7, 1897.

Application filed December 29, 1896. Serial No. 617,383. (No model.)

To all whom it may concern:

Be it known that I, EDGAR M. WINFREY, a citizen of the United States, residing at Wichita Falls, in the county of Wichita and State of Texas, have invented certain new and useful Improvements in Curtain-Fixtures; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to improvements in curtain-fixtures, and more particularly to that class of fixtures in which the brackets supporting the spring curtain-roller may be raised or lowered to admit light above the curtain.

The object is to provide a simple and convenient fixture of this class; and to this end the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same reference-numerals indicate the same parts of the invention.

Figure 1 is a front plan view of my improved curtain-fixture. Fig. 2 is an end elevation of the same, and Fig. 3 is a vertical section of the lower guide-pulley for the operating-cord.

1 represents the usual spring-roller, on which the window-shade 2 is mounted in the ordinary manner. This roller 1 is mounted in the bracket 3, which comprises the independent parallel rods 4 5, their inner ends being provided with guide-sleeves 6 6′, the sleeve 6 on the rod 4 encompassing the rod 5 and the sleeve 6′ on the rod 5 encompassing the rod 4.

The guide-sleeve 6 is formed with an integral spring-clip 8, the free end of which engages one of a series of detents 9 in the rod 5 to hold the arms in position when once adjusted and to permit their adjustment to correspond to rollers of different lengths.

The outer ends of the rods 4 and 5 are formed with an integral vertical loop 10, and each rod is then turned downward to form the bar 11, the lower end of which is provided with an integral eye 12 to receive the spindle of the curtain-roller 1.

A flexible cord 13 has one end secured to the loop 10 on the rod 5, and it then extends vertically upward over a grooved pulley 14, thence horizontally across the top of the window over one of the grooves of a double-grooved pulley 15, and its end is secured at a point 16 to an endless band-cord 17. A similar cord 13′ is secured to the loop 10 on the rod 4 and it extends over the second groove in the double-grooved pulley 15, and is also connected at the point 16 to the endless cord 17. This endless cord 17 is suspended from a fixed grooved pulley 18, and the loop formed by its lower end encompasses the adjustable friction-pulley 19, journaled on a stud 20 on the plate 21, said plate being provided with vertical slots 22 22, through which the usual wood-screws pass to adjustably secure it to the window-frame, the slots permitting a vertical adjustment of said pulley to compensate for the elongation of the endless cord.

The pulley 19 comprises an externally-threaded hub 23, formed with an integral flaring flange 24. An internally-threaded hub 25 is adjustably mounted on the hub 23, and it is likewise provided with a flaring flange 26, the contiguous faces of the two flanges being inclined to form a V-shaped groove between them.

A jam-nut 27 engages the outer end of the threaded hub 23 and serves to lock the hub 25 and flange 26 in position when adjusted.

28 represents a retaining-pin which passes transversely through the outer end of the stud 20 and retains the pulley 19 in place.

The side of the hub 23 contiguous to the plate 21 is formed with an integral ratchet-wheel 29, and 30 is a thumb-pawl pivoted on the stud 31 on the plate 21, the toothed end of the pawl engaging the teeth on the ratchet-wheel 29, while the free end of said pawl terminates in a weighted button, which serves to hold the pawl into engagement with the ratchet-wheel at all times except when it is raised by hand to permit the endless cord to rotate the pulley 19 in the opposite direction.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention,

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

1. A curtain-fixture comprising the longitudinally-adjustable parallel rods 4 5, provided with sleeves 6 6′, the detents 9 and the spring-clip 8 and having the integral loops 10 10, bars 11 11, eyes 12 12, the cords 13 13′, the single and double grooved pulleys 14 15, over which said cords pass, in combination with the endless cord 17, the fixed pulley 18, and the adjustable pulley 19 having the integral ratchet-wheel 29 and weighted thumb-pawl 30, substantially as and for the purpose set forth.

2. A curtain-fixture comprising the longitudinally-adjustable parallel rods 4 5 provided with sleeves 6 6′, the detents 9, and the spring-clip 8, and having the integral loops 10 10, bars 11 11, and eyes 12 12, the cords 13 13′, secured at one end to said loops, and the endless cord 17, to which the opposite ends of the cords 13 13′ are connected, the fixed pulleys 14, 15 and 18, and the plate 21 provided with the integral stud 20, in combination with the externally-threaded hub 23, having flange 24 and ratchet-wheel 29, the internally-threaded hub 25, and flange 26, the jam-nut 27, and the weighted thumb-pawl 30, substantially as and for the purpose set forth.

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

EDGAR M. WINFREY.

Witnesses:
O. E. CANNON,
P. P. LANGFORD.