

G. W. DAVIS.
CURTAIN ROLLER.
APPLICATION FILED APR. 9, 1912.

1,054,182.

Patented Feb. 25, 1913.

Fig. 1

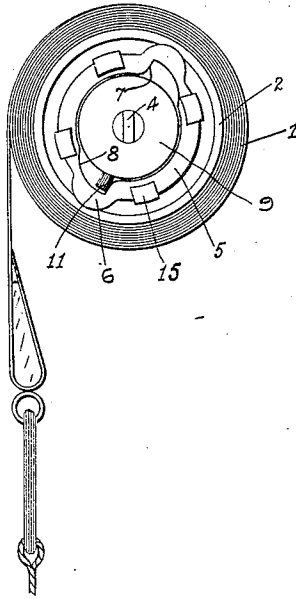


Fig. 2

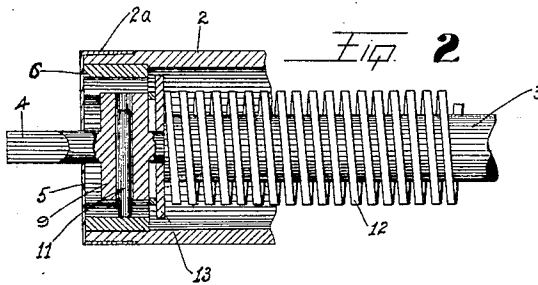


Fig. 3

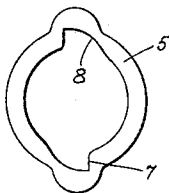


Fig. 4 *Fig. 5*

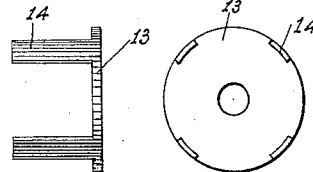
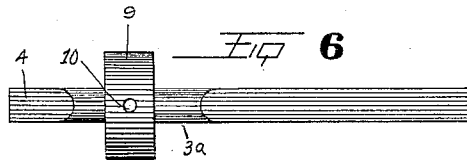


Fig. 6



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE W. DAVIS, OF SACRAMENTO, CALIFORNIA.

CURTAIN-ROLLER.

1,054,182.

Specification of Letters Patent.

Patented Feb. 25, 1913.

Application filed April 9, 1912. Serial No. 689,520.

To all whom it may concern:

Be it known that I, GEORGE W. DAVIS, a citizen of the United States, residing at Sacramento, in the county of Sacramento, State of California, have invented certain new and useful Improvements in Curtain-Rollers; and I do declare the following to be a clear, full, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this application.

This invention relates to improvements in spring actuated curtain rollers, the object of the invention being to produce a simplified and more effective structure for holding the spring in position and at the same time to produce a more perfect catch lock for the roller than those now commonly in use.

A further object of the invention is to produce a structure which will cover the above objects and at the same time have but very few and uncomplicated parts.

A further object of the invention is to produce a simple and inexpensive device and yet one which will be exceedingly effective for the purposes for which it is designed.

These objects I accomplish by means of such structure and relative arrangement of the parts as will fully appear by a perusal of the following specification and claim.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 is an end view of the curtain roller with the ferrule removed showing the curtain in position thereon. Fig. 2 is a detached view in section showing the spring retaining means and the catch means. Fig. 3 is an end view of a retaining catch. Fig. 4 is a side view of a spring retaining member. Fig. 5 is an end view of the same. Fig. 6 is a side view of a retaining pin housing and roller pin.

Referring now more particularly to the characters of reference on the drawings the numeral 1 designates the curtain, and 2 designates the outer roller or housing which incloses the mechanism of the roller and to which the curtain 1 is attached.

The numeral 3 designates the central rod to which the end pin 3^a is connected, such

end pin having an outer square shoulder 4 adapted to engage the usual hooks or hangers used to hold the roller. Over the end of the member 2 is a ferrule 2^a to hold the parts inclosed and strengthen the same. In applying my improved structure I first provide a collar 5 provided with projecting lips 6 adapted to fit closely in the end of the roller 2 and to be secured there by any suitable securing means. Said collar 5 is provided with inner shoulders 7 adapted to form catches, there being eccentric curved portions 8 leading thereto. On the member 3^a is a round shoulder 9 provided with a transverse orifice 10. This shoulder 9 is adapted to extend within the periphery of the member 5 and a pin 11 is adapted to project into the orifice 10 and be slidable therein and adapted to project out of the same and engage one of the catches 7 to maintain the tension of the roller spring 12. This spring 12 is secured at its inner end to the member 3 and is disposed within the member 2 and around the member 3^a and is fixed securely to the member 5 by means of a washer 13 mounted over the member 3 and holding one coil of the spring 12 securely against the member 5, such member 13 being fixed in position by means of projecting finger members 14 which project over the periphery of the member 5 and are bent over the outer end of said member as at 15. As will be readily seen by holding the pin 3^a stationary in the usual manner and turning the roller 2, the spring 12 will be given the required tension, which tension will be maintained when the roller is in position in the hangers by means of the pin 11 engaging one of the shoulders 7 and when the curtain 1 is unrolled this pin readily passes back into the orifice 10 by rising over the eccentric curved portions 8 as will appear. When this occurs the pin 11 will ride over the shoulders 7 to wind up the curtain.

From the foregoing description it will be readily seen that I have produced such a device as substantially fulfils the objects of the invention as set forth herein.

While this specification sets forth in detail the present and preferred construction of the device, still in practice such deviations from such detail may be resorted to as do not form a departure from the spirit of the invention.

Having thus described my invention what

I claim as new and useful and desire to secure by Letters Patent is:—

A device of the character described comprising a rod, a roller disposed around said
5 rod, a collar projected into the end of said roller, said collar being provided with inner catches, a pin projecting into the end of said rod, a collar on said pin, said collar
10 being provided with a transverse recess, a pin movable in said recess and adapted to engage said catches, a washer mounted between the collar on said first named pin and

said rod, projecting finger members on said washer adapted to engage said first named collar, a spring disposed around said rod, 15 one coil of said spring being interposed between said washer and the collar on said first named pin, as described.

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

GEORGE W. DAVIS.

Witnesses:

JOSHUA B. WEBSTER,
CLARENCE SMITH.

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