(No Model.)

W. B. NOYES.

CURTAIN ROLLER.

No. 278,038. Patented May 22, 1883.

Fig. 3.

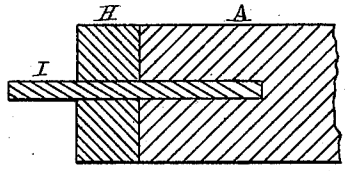


Fig. 1.

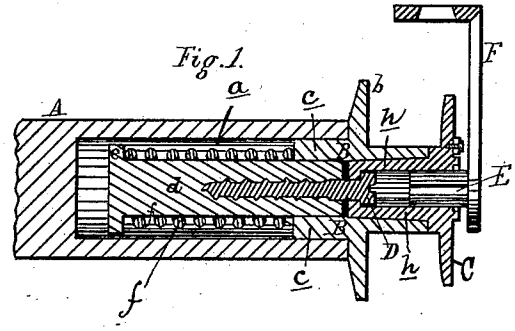
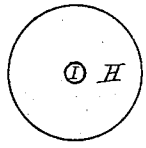
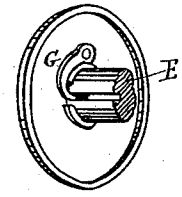


Fig. 2.





Attest,
A. J. Sprague
E. Scully.

Inventor.
Walter B. Noyes.
By Thos. S. Sprague
Atty.

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

WALTER B. NOYES, OF SAGINAW, MICHIGAN, ASSIGNOR TO LIZZIE B. NOYES, OF SAME PLACE.

CURTAIN-ROLLER.

SPECIFICATION forming part of Letters Patent No. 278,038, dated May 22, 1883.

Application filed May 10, 1882. Renewed April 3, 1883. (No model.)

To all whom it may concern:

Be it known that I, WALTER B. NOYES, of Saginaw, in the county of Saginaw and State of Michigan, have invented new and useful Improvements in Curtain-Rollers; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

The nature of this invention relates to certain new and useful improvements in the construction of curtain-rollers of that class wherein the curtain is rolled upon the roller by means of a side cord, the object of the invention being to construct a roller in such manner that the curtain can be lowered by pulling down upon the same, and that will remain at its adjusted position without the employment of the cord, excepting in raising the curtain.

The invention consists in the peculiar construction, arrangement, and various combinations of the parts, all as more fully hereinafter set forth.

Figure 1 is a central longitudinal section through the end which carries my improvement. Fig. 2 is a detail perspective, showing the operation of the stop-dog. Fig. 3 is a section through the opposite end of the roller.

In the accompanying drawings, A represents a wooden roller, in one end of which is formed a recess, *a*, by boring out that end of the roller.

B represents a spool provided with the flange *b* and with a plug, *c*, which latter fits closely into the mouth or end of the recess *a*, and is secured therein in any convenient manner. This plug *c* is provided with a central passage to inclose the adjustable plug *d*, which is provided with a head, *e*, and around this plug *d*, between the head *e* and the inner face of the plug *c*, is placed a coil-spring, *f*, the ends of which bear against the inner face of the plug *c* and the head *e*.

C represents a flange-plate provided with a hub, *h*, which hub is slightly tapering, and enters a correspondingly-shaped hole in the outer end of the spool B. This flange-plate is secured to place by means of a screw, D, which passes through the hub of the flange-plate and screws into the end of the plug *d;* and it will be seen that by means of this screw a greater or lesser tension may be brought to bear upon the spring *f*, thus regulating the frictional contact between the spool B and the flange-plate C, as may be desired. The hub of the flange-plate C is centrally recessed to receive the slotted stud E of the bracket F when the curtain is hung, such bracket being secured to the window-frame, as in the ordinary manner.

G is a dog or pawl, which is pivotally secured to the outer face of the flange-plate C, and in the operation of the device this dog engages with the slot in the stud E of the bracket. For a bearing upon the opposite end of the journal, which is to rest within a suitable bracket secured to the window-frame as in the ordinary manner, I employ a block, H, preferably of hard wood, and of the same diameter as the roller to which it is to be applied, and through the center of this block H, I drive a pin, I. To secure this block to the end of the roller A, I place the block H upon the end of the roller, which necessarily centers or gives center for the journal-pin I, which I then drive into the end of the roller A, as shown in Fig. 3, thereby securing both parts together without the necessity of using brads or nails, as in the ordinary manner; and in case I have cut the roller a little too long or too short the pin I may be driven so as to accommodate the roller to the brackets.

In hanging a curtain provided with a roller of this construction, the brackets first having been put up, the cord, one end of which is made fast to the spool B, is left unwound while the curtain is rolled upon the roller, and the bearings are placed within the brackets. By then pulling down upon the curtain it will be seen that I wind the cord upon the spool, and in pulling upon the cord I necessarily raise the curtain or wind it upon the roller. When it is desired to lower the curtain without the means of the cord, I merely pull upon the curtain, which allows the roller, with the spool B, to turn upon the hub of the flange-plate C, the spring exerting sufficient force to cause frictional contact between the parts and retain the curtain in its adjusted position without disturbing the engagement of the dog with the bracket.

What I claim as my invention is—

1. The combination, with the roller A, having a recess, *a*, and the hollow spool B, secured to said roller, of the flange C, provided with inwardly-projecting sleeve *h*, and plug *d*, and the spring *f*, pressing against a flange, *e*, of the plug *d* and the inner surface of the spool B, and serving to draw the flange C toward the spool with a frictional contact, substantially as described.

2. The combination, with the curtain-roller A and spool B, of the plugs *c d*, spring *f*, flange-plate C, and screw D, substantially as and for the purposes described.

3. In a curtain-roller, the combination of the recessed roller A, flanged spool B, plug *d*, screw D, spring *f*, and flange-plate C, provided with the hollow hub *h*, the dog G, and slotted stud E of the bracket F, substantially as and for the purposes set forth.

WALTER B. NOYES.

Witnesses:

H. S. SPRAGUE,

F. R. ALDERMAN.