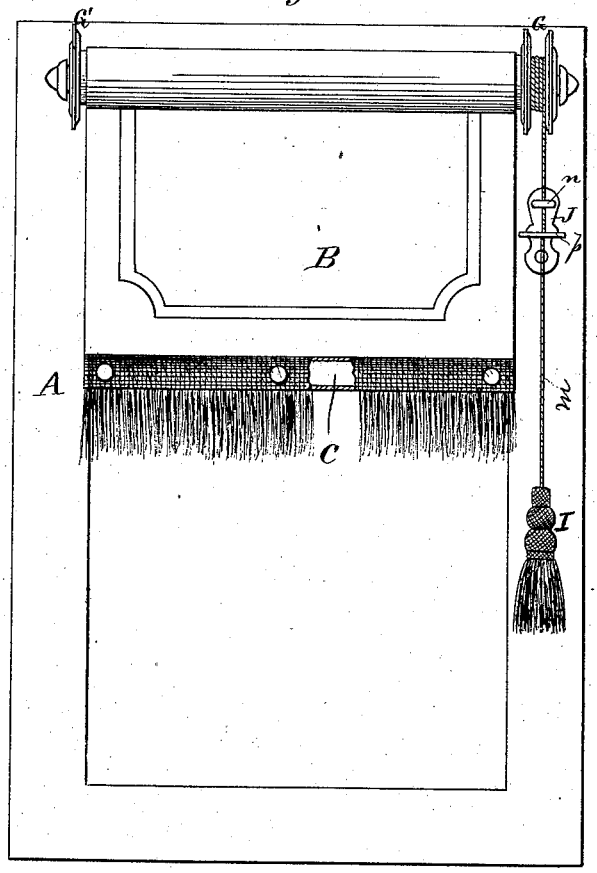
W. B. NOYES.
CURTAIN-FIXTURES.

No. 194,458. Patented Aug. 21, 1877.

Fig. 1.



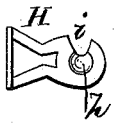


Fig. 2.

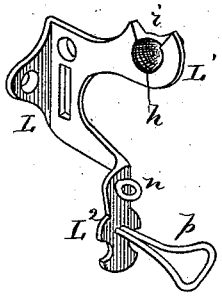
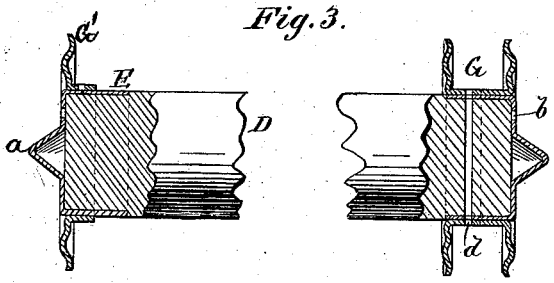


Fig. 3.



WITNESSES
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UNITED STATES PATENT OFFICE.

WALTER B. NOYES, OF CHARLESTOWN, MASSACHUSETTS.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. **194,458**, dated August 21, 1877; application filed April 12, 1877.

To all whom it may concern:

Be it known that I, WALTER B. NOYES, of Charlestown, in the county of Suffolk, and in the State of Massachusetts, have invented certain new and useful Improvements in Curtain-Fixtures; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a curtain-fixture, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a front view of a window-frame with curtain-roller and my improved curtain-fixture. Fig. 2 shows a modification of one of the brackets. Fig. 3 shows the ends of the curtain-roller in section.

A represents the window-frame. B is the curtain with slat C in its lower edge, and D is the curtain-roller.

On each end of the roller is placed a cap, E, spun up of sheet metal, and formed with a conical projection, *a*, in the center to form the pivot for the roller. This conical pivot is spun or otherwise formed from the metal of the body of the cap, and the cap is fastened on the roller by one or more screws, nails, or pins through holes *b* in the cap.

G represents the cord pulley. This is also spun of sheet metal, and has its side flanges corrugated to strengthen the pulley. It is placed on the end of the roller over the cap E, and fastened by a pin passing through a hole, *d*, made through the pulley and cap, and into the roller, as shown in Fig. 3.

The caps and pulley can be made to present a neat and handsome appearance, and, being made of sheet metal, can be manufactured very cheaply, while at the same time they are sufficiently strong for all necessary purposes.

H H are the brackets in which the roller is hung, said brackets being fastened in the usual manner to the window-frame, and formed with conical recesses *h* to receive the conical pivots *a*. One of the brackets has a slot, *i*, at the top to drop the pivot into the recess. *m* is the curtain-cord fastened to the pulley, wound around the same, and having a tassel, I, at its free end. This cord passes through an eye, *n*, projecting from a plate, J, which is also secured to the window-frame, as shown, and below said eye the cord passes through a stop, *p*, also projecting from said plate. This stop is made of a piece of wire bent as shown, forming a loop at its outer end, and the ends of the wire lying close together and fastened to the plate.

By bringing the cord *m* in between the ends of the wire, the curtain may be held at any desired height, and by simply pulling it outward into the open part or loop of the stop, the curtain may be raised or lowered, as desired. No weights of any kind are required to balance the curtain.

In Fig. 2 I have shown a bracket, L, having two arms, L^1 and L^2, the upper arm, L^1, being formed with the recess *h* and slot *i*, and the lower arm, L^2, provided with the eye *n* and stop *p*, thus combining the whole in one article.

The pulley G, above described, is made in two parts, as shown, it being divided centrally, and at the other end of the roller one such part, G^1, is fastened over the cap to form the flange at that end of the roller.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The cap E, spun or otherwise formed of sheet metal, with the conical projecting pivot *a*, formed of the same piece of metal with the cap itself, substantially as herein set forth.

2. A pulley for curtain-rollers formed of two sheet-metal pieces, L-shaped in cross-section, with their flanges having annular corrugations, and surrounding and connected directly to the end of the roller, substantially as herein set forth.

3. The bracket L, constructed with two

arms, L^1 L^2, the arm L^1 having the conical recess *h*, and the arm L^2 the eye *n* and stop *p*, said bracket being adapted to receive and support the roller D, having the sheet-metal caps E E, provided with conical bearings *a*, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 27th day of March, 1877.

WALTER B. NOYES. [L. S.]

Witnesses:
HENRY W. BRAGG,
WILLIAM H. PARK.