

R. Vose,

Curtain Fixture.

No. 111,405.

Patented Jan. 31. 1871.

Fig. 1.

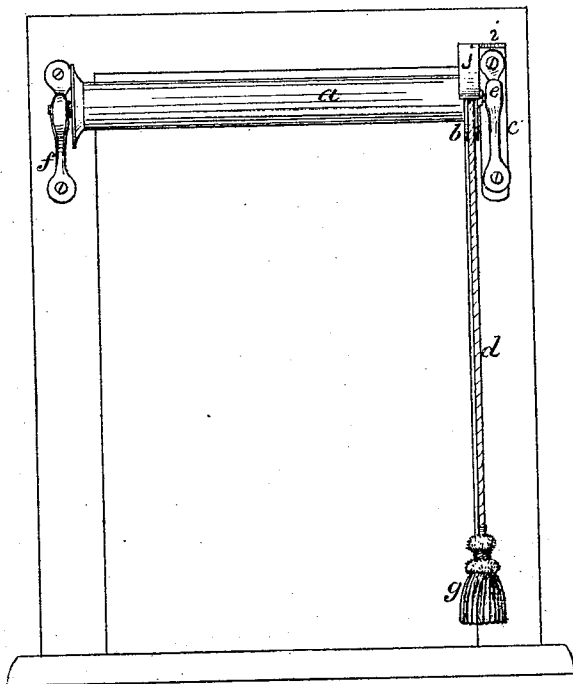
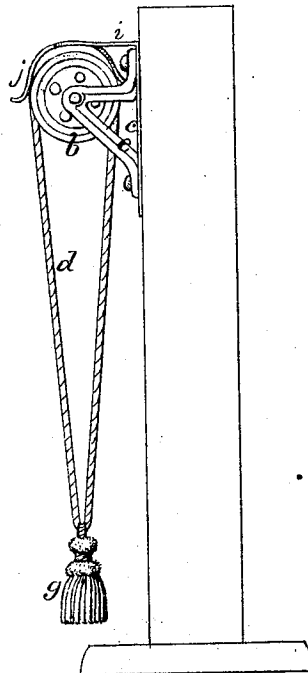


Fig. 2.



Witnesses,

H. A. Daniel,

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Inventor,

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By his Attorney

J. C. Robbins

United States Patent Office.

RICHARD VOSE, OF NEW YORK, N. Y.

Letters Patent No. 111,405, dated January 31, 1871.

IMPROVEMENT IN CURTAIN-FIXTURES.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, RICHARD VOSE, of No. 1 Barclay street, in the city, county, and State of New York, have invented a new and useful Improvement in the Operating-Attachments to the Rollers of Window-Shades; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing which forms a portion of this specification.

Figure 1 is a view of a mounted window-shade roller, *a*, and of the respective attachments thereto for operating the same, and

Figure 2 is a view which more clearly and distinctly represents the combination of said operating-attachments with the right-hand end of said roller.

The cord by which the window-shade roller *a* is revolved is received into a deep groove in its metallic head *b*, and from which it swings freely in the form of a loop, and which is hereinafter designated as the operating cord-loop *d*.

The weighted tassel *g*, which is suspended to the cord-loop *d*, serves the purpose of preserving the perfect shape of said loop, and is also an ornamental appendage thereto.

The bracket *e*, which supports the end of the shade-roller that carries the grooved head *b*, is combined with a spring-plate, *c i j*, in the manner shown in the drawing.

The straight and flat portion *c* of the spring-plate *c i j* passes under the legs of the bracket *e*, and has such perforations formed therein as enable both the spring plate and the bracket to be combined with each other and secured to the window-casing by the same nails or screws.

The portion *i* of the spring plate *c i j*, which projects forward from the upper end of the portion *c* of said plate, has a lateral offset, *j*, therefrom, whose ends are curved downward to such an extent and of such a shape as to bear upon a portion of the periphery of the roller-head *b*, and with such a degree of force as will counteract the tendency of the weight of the shade appended to the roller to turn said roller,

and, consequently, a force which enables the frictional action of the curved portion *j* of said spring plate to retain the shade in any desired position.

The curved portion *j* of the spring plate *c i j* also serves the purpose of securely retaining the actuating cord-loop *d* within the groove of the roller-head *b*.

The weighted tassel *g* may be suspended to the operating-cord loop *d* by means of a short loop or by means of an attachment which is combined with a grooved anti-friction roller, or by any other means which will permit the cord-loop *d* to pass freely through the said attaching contrivance.

If the cord employed in said loop should be of such a size that the curved portion *j* of the spring plate *c i j* will bear upon it, the shade can be raised or lowered by drawing upon one or the other side of the cord-loop. But if the cord employed in said cord-loop *d* be of such a size as to rest entirely within the groove of the roller-head *b*, then, to turn the shade-roller, it will be necessary to simultaneously take hold of both sides of the cord-loop *d* and to draw downward thereupon with such a degree of force as will enable the movement that may then be imparted to said cord-loop to impart the desired amount of movement to the roller *a* and to the shade that may be appended thereto.

Having thus fully described the construction and operation of my improvement in the operating-attachments to window-shade rollers,

What I claim therein as my invention, and desire to secure by Letters Patent, is—

The combination of the spring plate *c i j* with the supporting-bracket *e*, the grooved roller-head *b*, and the tassel-weighted cord-loop *d*, substantially as and for the purpose herein set forth.

This specification of my improvement in the metallic attachments of window-shade rollers signed and witnessed this 19th day of December, 1870.

RICHD. VOSE.

Witnesses:

B. J. GUIBERT,
F. I. GUIBERT.