G. W. CORNELL.
Curtain Fixture.

No. 198,839. Patented Jan. 1, 1878.

Fig. 1.

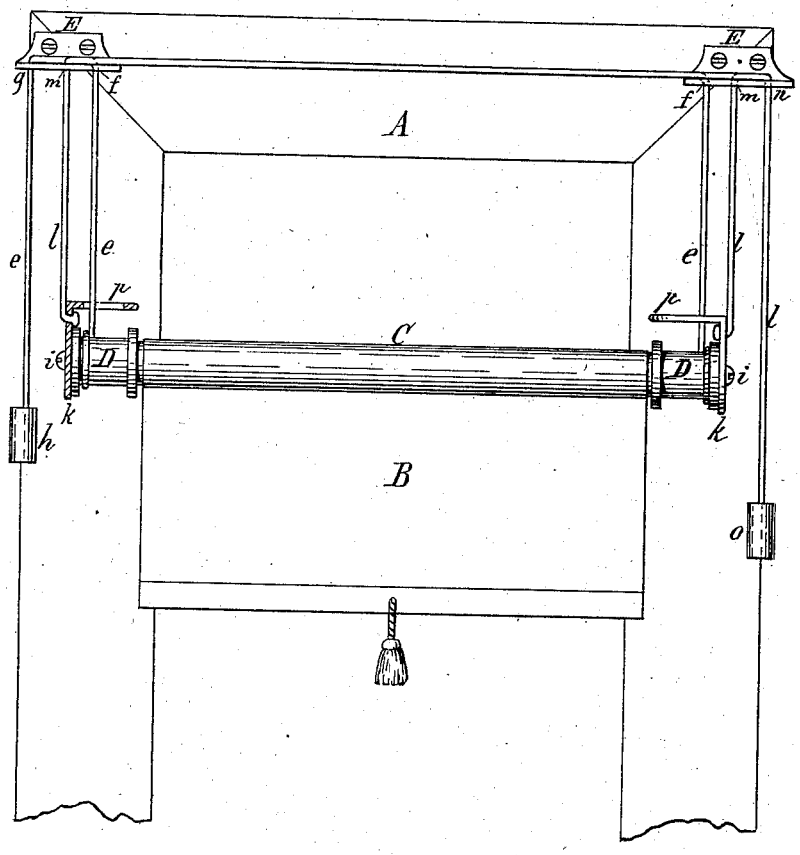


Fig. 2.

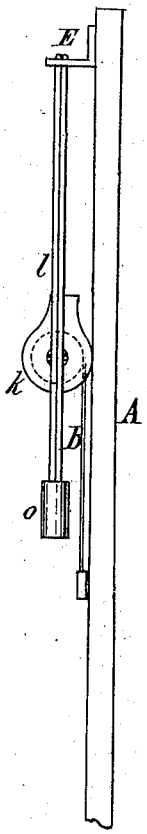
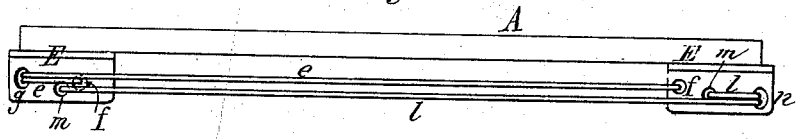


Fig. 3.



H. K. Jones
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UNITED STATES PATENT OFFICE.

GEORGE W. CORNELL, OF CLARENCE CENTRE, ASSIGNOR OF ONE-HALF HIS RIGHT TO M. DE L. CORNELL, OF COWLESVILLE, NEW YORK.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. **198,839**, dated January 1, 1878; application filed November 1, 1877.

To all whom it may concern:

Be it known that I, GEORGE W. CORNELL, of Clarence Centre, in the county of Erie and State of New York, have invented a new and useful Improvement in Curtain-Fixtures, of which the following is a specification, reference being had to the accompanying drawing.

My invention relates to that class of curtain-fixtures in which the curtain-roller is mounted in movable bearings attached to cords, so that the roller can be raised and lowered for shading or uncovering the upper portion of the window.

My invention consists of the particular construction and arrangement of the device, as will be hereinafter fully set forth.

In the accompanying drawing, Figure 1 is a front elevation of my improved curtain-fixture; Fig. 2, a side elevation thereof, and Fig. 3 a plan view of the same.

Like letters of reference designate like parts in each of the figures.

A represents the window-frame, and B the curtain. C is the curtain-roller, provided at each end with a pulley, D, made of the same diameter as the roller. *e e* are two cords, wound upon the pulleys D D in such manner as to wind the curtain upon the roller as the latter is lowered. The cords *e e* run through two eyes or guides, *f f*, formed in brackets E, secured to the upper portion of the window-case above the pulleys D D, and thence through another eye or guide, *g*, arranged farther outward, whence the cords *e e* descend and connect with a weight, *h*, sufficiently heavy to balance the weight of the curtain and connecting parts. *i i* are two journals, secured in the ends of the roller C, and turning in bearings *k k*, which are attached to cords *l l*, running through eyes or guides *m m n* arranged in the brackets E on the upper portion of the window-case. The cords *l l* connect with a weight, *o*, whereby the parts supported by the cords *l l* are counterbalanced. *p* is a loop, formed with each bearing *k*, for guiding the cords *e* upon the pulleys D.

By raising or lowering the weight *o* the roller C is lowered or raised, while the cords *e e* remain stationary, thereby causing the roller to turn in the bearings *k k*, and the curtain to be wound upon the roller, or to be unwound therefrom, in the same measure as the roller is lowered or raised, the lower edge of the curtain remaining stationary during these movements of the roller. Upon raising and lowering the weight *h* the curtain is lowered or raised by the turning of the roller in its bearings, the bearings being held stationary by the weight *o*.

The arrangement of the two cords *e e* with the two pulleys D D of the curtain-roller C causes the latter to remain perfectly level in raising and lowering it, as the resistance of the movements of the roller is by this arrangement equally distributed upon both ends of the curtain-roller.

If desired, the brackets E, provided with the guides *f f g* and *m m n*, may be secured to a removable slat to the upper portion of the window-casing, instead of securing them directly to the casing.

My improved curtain-fixture is very simple in construction, and not liable to get out of order. It is readily applied to ordinary curtains, and it renders the curtain adjustable, so that any desired portion of the window can be shaded or uncovered, as may be desired. My improved curtain-fixture is also very durable, as the wear upon the cords is greatly reduced by distributing the weight of the curtain and connecting-parts upon the four cords *e e l l*.

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

The combination, with the curtain B, of the roller C, provided with two pulleys, D D, cords *e e*, wound upon the pulleys D D, as described, and running upward over guides *f f g*, and connecting with weight *h*, the roller C being journaled in bearings *k k* attached to cords *l l* running over guides *m n* and connecting with weight *o*, as and for the purpose hereinbefore set forth.

GEO. W. CORNELL.

Witnesses:

EDWARD WILHELM,

JNO. J. BONNER.