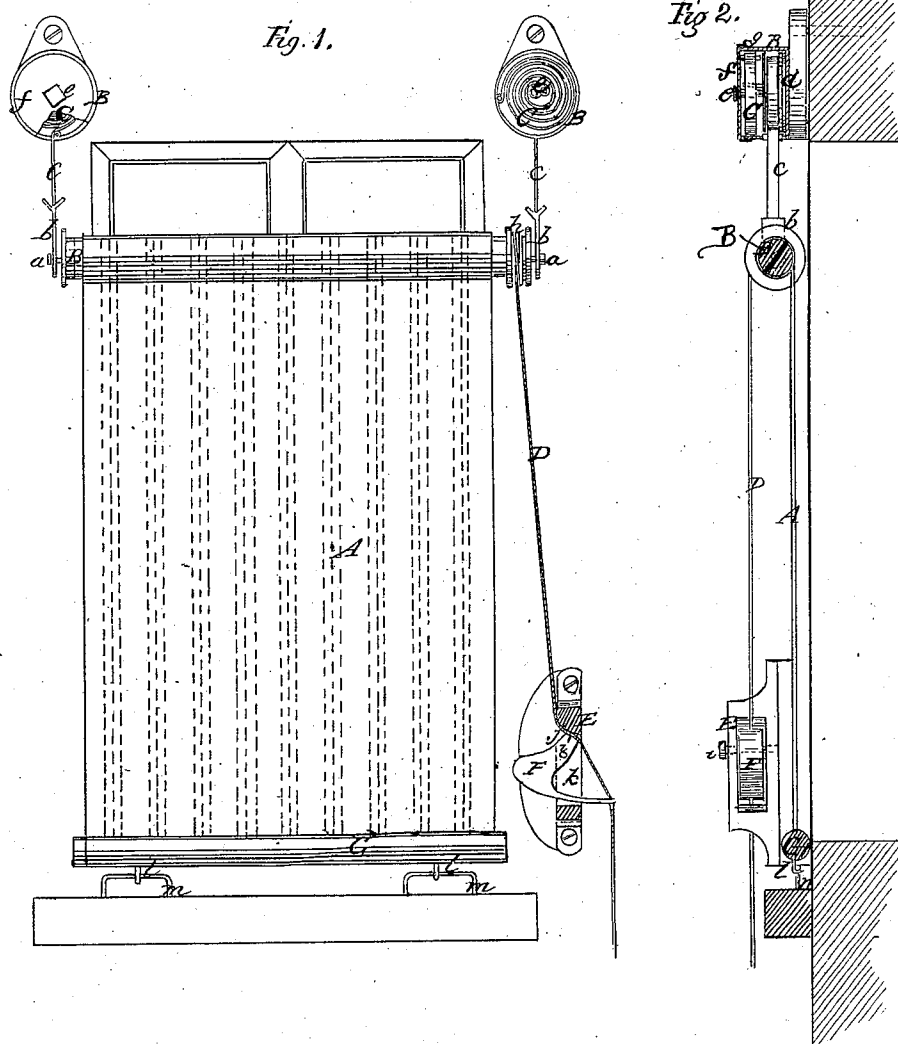


J. D & I. W. Legg
Curtain-Fixture.
N^o 77499 Patented May 5, 1868.



Witnesses.
H. C. Asakettle
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United States Patent Office.

J. D. LEGG AND I. W. LEGG, OF LONG EDDY, NEW YORK.

Letters Patent No. 77,499, dated May 5, 1868.

IMPROVED 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 we, J. D. LEGG and I. W. LEGG, of Long Eddy, in the county of Sullivan, and State of New York, have invented a new and improved Application of Shades to Windows; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and improved mode of applying shades to windows, whereby the former may be raised and lowered either from the top or bottom, as occasion may require.

The object of the invention is to obtain a very simple means for accomplishing the above result, which will not be liable to get out of repair.

In the accompanying sheet of drawings—

Figure 1 is a face view of a window, having a shade applied to it according to our invention.

Figure 2, a vertical section of the same, taken in the line *x x*, fig. 1.

Similar letters of reference indicate corresponding parts.

A represents a window-shade, the upper end of which is secured to a roller, B, the journals *a* of which are fitted in plates *b b*, attached to the lower ends of tapes *c c*. These tapes are secured to pulleys *d d*, which are fitted on shafts *e*, fitted in cylindrical boxes B B, which are secured to the upper part of the window-frame, one at each side thereof, (see fig. 1.)

On the shafts *e e* there are placed coiled springs C C, one on each, the inner ends of said springs being attached to the shafts, and the outer ends attached to lids or covers *f* of the boxes B, said lids or covers being notched at their edges, to receive a pin, *g*, on the side of the boxes, by which the springs are prevented from expanding or uncoiling.

By this arrangement the springs, by turning the lids or covers, may be wound up to the required degree of tension, and retained or held by the pin *g* on the side of the boxes, fitting in one of the notches of the lids or covers.

The springs C C have a tendency to draw the roller B upward, and on one end of the roller there is a pulley, *h*, to which a cord, D, is attached, which extends down and passes through a clamp, E, attached to one side of the window-frame. This clamp is composed of a curved arm, F, which works on a pivot, *i*, (see fig. 1,) and clamps or bites the cord against the upper edge of the slot *j* in the socket *k*, in which it is fitted.

The lower edge of the shade A has a bar, G, attached, which is provided with two hooks *l l*, to catch into loops *m m* at the lower part of the window-frame.

In order to lower the upper end of the shade, the bottom of the same is hooked to the loops *m m*, and the cord D pulled down, which causes the roller B to turn as it descends, and wind the upper part of the shade upon it, the springs C being also wound up as the roller descends, the clamp E holding the cord at any desired point by simply pulling down the lower end of the arm E.

In order to raise the upper part of the curtain, the cord D is released from the clamp, by pressing upward the lower end of the arm F, the springs C C then drawing upward the roller B.

In order to raise the lower part of the shade, it is unhooked from the loops *m m*, and the springs C C being strong enough to hold the roller B in position while it is turned by pulling the cord D, the shade is wound upon it.

We would remark that the roller B may be composed of two longitudinal parts, and the top of the shade fitted between said parts, and firmly clamped, by securing the two parts together by screws. The bar G, at the lower end of the shade, may be secured to it in the same way.

We claim as new, and desire to secure by Letters Patent—

1. Connecting the roller B, through the medium of tapes *c c*, to springs C C, secured to the upper part of the window-frame, in connection with the hooks *l l* and loops *m m*, or other suitable fastening for securing or

holding the lower end of the shade, and the cord D on the pulley h of the roller, all being arranged to operate substantially as and for the purpose set forth.

2. The clamp E, when used in connection with the cord D of the shade-roller B, connected to the springs C C, substantially as and for the purpose specified.

J. D. LEGG,
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Witnesses:

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