

B. MOSER.

Improvement in Curtain-Fixtures.

No. 114,843.

Patented May 16, 1871.

FIG. 1.

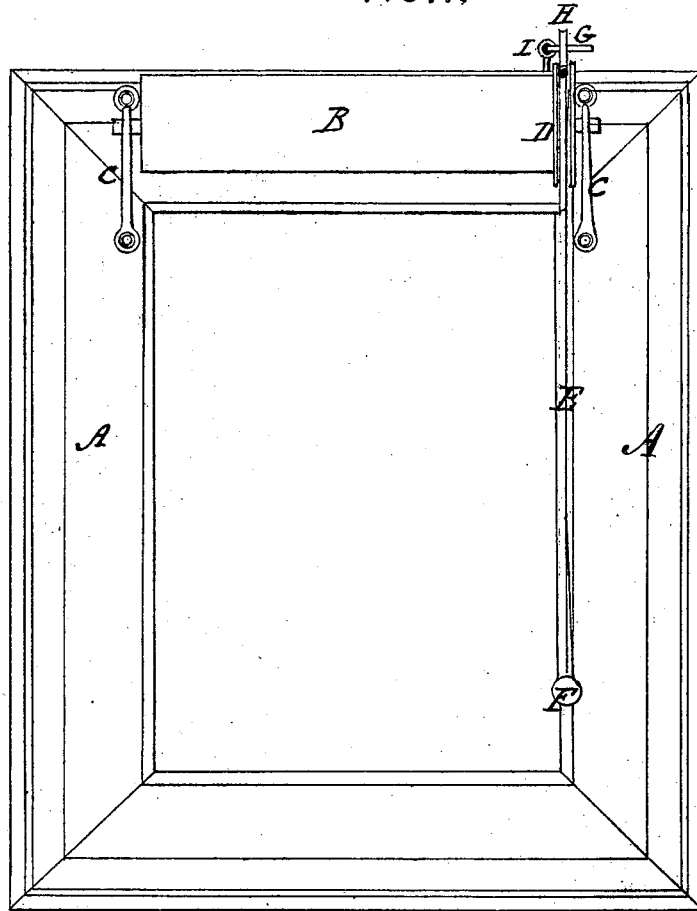


FIG. 2.

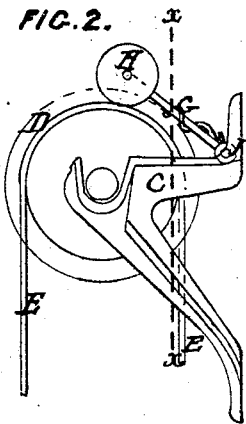


FIG. 3.

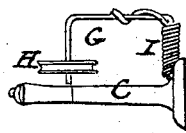
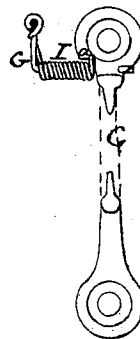


FIG. 4.



INVENTOR.

*Benjamin Moser*

WITNESSES.

*Edwin W. Brown.*

*Albert H. Brown.*

# United States Patent Office.

BENJAMIN MOSER, OF WALTHAM, MASSACHUSETTS.

Letters Patent No. 114,843, dated May 16, 1871.

## IMPROVEMENT IN CURTAIN-FIXTURES.

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

*To all persons to whom these presents shall come :*

Be it known that I, BENJAMIN MOSER, of Waltham, Middlesex county, State of Massachusetts, have invented new and useful Improvements in Curtain-Fixtures; and that the following description, taken in connection with the accompanying drawing, is a full and complete specification of the same.

This invention consists of a peculiarly-arranged and constructed spring arm having loose roller to bear upon the operating-cord around the pulley of curtain-roller.

The object of this spring arm is to insure beyond a possibility of doubt the working of the operating-cord, its pressure on the cord, nipping it while not absolutely binding it to the roller, and insuring the requisite friction to produce the turning of the curtain-roller, and consequently the winding or unwinding of the curtain, as the case may be, and also the balance of the shade.

In the accompanying drawing my improvements in curtain-fixtures are illustrated—

Figure 1 being a front view of a window-frame, showing a curtain-roller hung thereto and provided with its operating-cord;

Figure 2, a side view of a bracket for carrying a curtain-roller, which bracket is constructed and provided with a spring arm;

Figure 3, a plan view of the bracket, &c., shown in fig. 2;

Figure 4, a section in plane of line *x x*, fig. 2.

A in the drawing represents a window-frame, and B a roller arranged to turn in brackets C, one at each side of the window-frame, this roller being an ordinary curtain-roller.

D, a grooved pulley or wheel applied to one end of curtain-roller, and

E an endless cord passing partially around the same, for turning the roller to wind up or unwind the curtain thereto, this endless cord passing around a pulley, F, at lower portion of window-frame.

The arrangement and construction of the several parts above described are substantially the same as in ordinary curtain-fixtures of the same class.

G, an arm, which, at each end, is bent at right an-

gles to the central portion, and by one of its bent ends inserted within a suitable socket of the roller-bracket, at the end where the cord-pulley of curtain-roller is located by the other projected over the plane of the roller-pulley, and there provided with a friction-wheel, H, to bear within the groove of the curtain-pulley and upon the cord passing therein around it.

I, a coiled spring about the bent portion of arm G, by which it is fastened to the bracket.

One end of the spring I is interlocked with a notch, *a*, of the bracket, and the other end twisted around the central or main portion of the arm G, as plainly shown in the drawing.

By this application of a coiled spring the attachment of the arm G to the bracket C is secured, and also an elasticity and spring to the arm, producing, consequently, an elastic and spring pressure by its friction-roller-carrying end upon the curtain-cord on the roller-pulley. By this pressure of the arm G upon the curtain-cord the operation of the roller from the pulling of the cord to wind or unwind the curtain is secured beyond a doubt, and a complete balancing of the curtain obtained, dispensing entirely with the necessity of a strong tension on the curtain-cord and the use of a weighted tassel, should tassels be employed in lieu of an endless cord.

By means of the friction-wheel of the arm G an easier and readier movement of the cord around the curtain-roller is obtained.

Having thus described my improvements in curtain-fixtures,

I shall state my claim as follows:

The arm G, having loose wheel H and coiled spring I, in combination with bracket C and curtain-roller B, constructed as and for the purpose described.

The above specification of my improved curtain-fixture signed by me this 25th day of March, A. D. 1871.

BENJAMIN MOSER.

Witnesses:

EDWIN W. BROWN,  
ALBERT W. BROWN.