

*M. Loeb.*

*Curtain Fixture.*

*Nº 97,304.*

*Patented Nov. 30, 1869.*

FIG. 1.

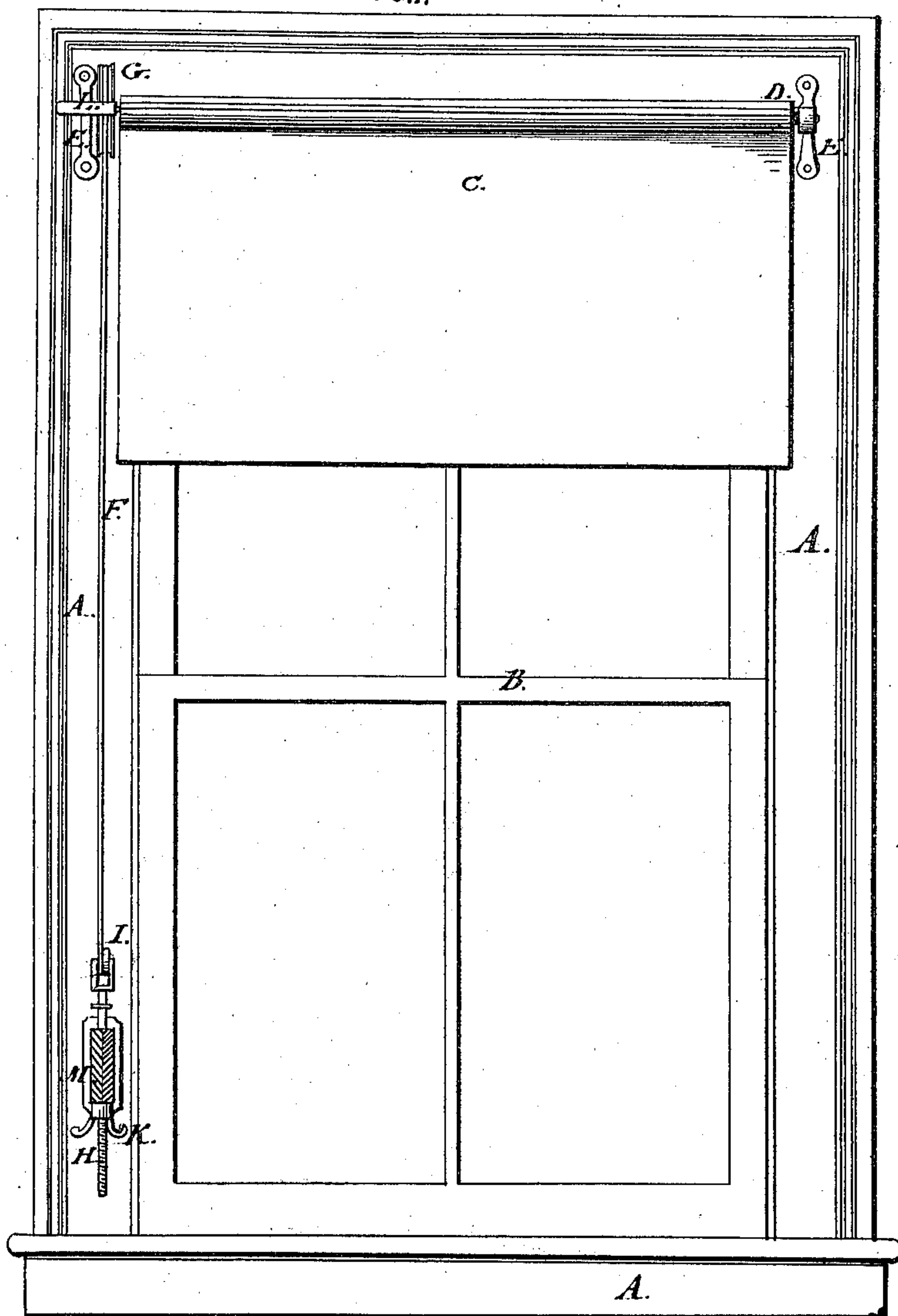
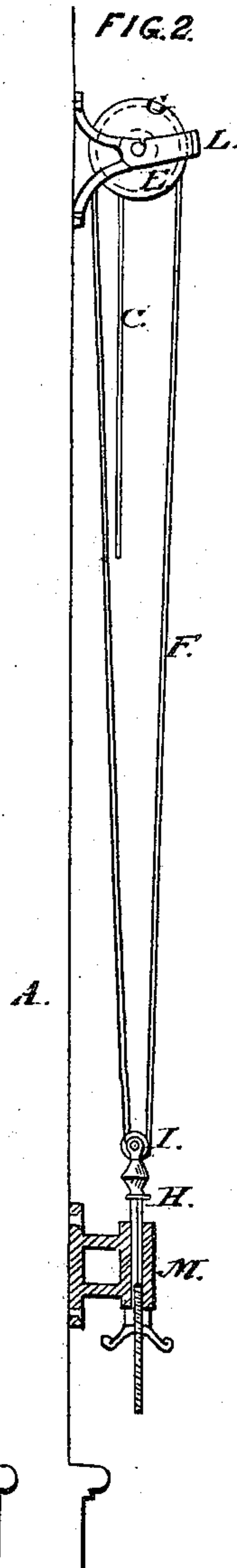


FIG. 2.



**WITNESSES:**

*A. Berardini*  
*John A. Silber*

**INVENTOR:**

*Moses Loeb*  
*per. Farwell* *Ellsworth & Co*  
*attorneys*

# United States Patent Office.

MOSES LOEB, OF CHICAGO, ILLINOIS.

Letters Patent No. 97,304, dated November 30, 1869.

## IMPROVED CURTAIN-FIXTURE.

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, MOSES LOEB, of Chicago, in the county of Cook, and State of Illinois, have invented new and useful Improvements in Curtain-Fixtures; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation of a window and shade showing my improved fixtures.

Figure 2 is a side view of the same, partly in section.

Similar letters of reference indicate corresponding parts in the several figures.

My invention has for its object to regulate the tension of the cords by which window-shades are operated, and to prevent the cord from running off the shade-roller.

It consists, first, in a socket affixed to the window-frame at the lower end of the cord, adapted to receive a screw-rod, which carries, at one end, a grooved roller, over which the shade-cord passes, and, at its opposite end, an adjusting-nut, by which the tension of the cord is regulated. I am aware that various devices have heretofore been employed for this purpose, but they are usually formed with catches or notches, adapted to receive and hold a pawl, carrying a grooved roller, by the tension of the cord itself; or they are made without notches, the grooved roller being held against the tension of the cord, partially by friction, and partially by a wedge. These forms are, however, imperfect in their operation, and cannot under all circumstances, tighten the cord properly. By the employment of an adjusting-screw and nut, as I propose, the tension of the cord can be regulated to any degree, with the utmost ease and accuracy.

My invention also consists in the construction of a reversible guard-bracket, for holding the cord upon the end of the shade-roller, whereby the same can be employed at either end of the roller, as circumstances may require.

In the accompanying drawings—

A is a window-frame;

B, the sash; and

C, a window-shade, mounted upon the roller D, in the usual manner.

The roller D is adapted to turn in brackets E E', the latter of which forms a portion of my invention.

F is the shade-cord, passing over a grooved pulley G, affixed to the end of the roller D, as usual.

M is a metallic socket, affixed to the window-frame,

near the lower end of the shade-cord, as shown, and receives a metallic bar, H, in such a manner that the latter shall be parallel to the side of the window-frame. This bar is squared for a portion of its length, near the upper end, to correspond with the opening in the socket, and to prevent its turning in the latter. Its extreme upper end is bifurcated, as shown, to receive the grooved roller I, around which the shade-cord F passes.

The bar H, below the squared portion, is provided with a screw-thread, to receive the adjusting-nut K, which bears against the lower end of the socket. By turning this nut, it will readily be seen that the cord F can be tightened or loosened with the greatest accuracy and facility.

E' is a bracket, forming one of the bearings for the shade-roller, as previously mentioned. It is provided upon its outer end with a plate, L, at right angles to the main portion, and extending an equal distance upon each side of the same. This plate projects over the front portion of the grooved pulley G, and serves to prevent the cord F from running off said pulley.

The object of extending the plate L upon both sides of the main portion of the bracket, is to adapt the latter for use at either end of the roller D, according to the side of the window-frame upon which it is desired to locate the socket and adjusting-screw. Thus a reversible bracket is obtained, capable of use in all situations.

My invention is productive of simplicity and economy in the construction of curtain-fixtures, and renders the operation of window-shades much more perfect than it has been hitherto.

Having thus described my invention,

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

1. The plate L, arranged on the outer end of the bracket E', so as to project at right angles on either side, as herein described, and for the purpose set forth.

2. The curtain-fixture, provided with bracket E and its plate L, cord F, adjustable bar H, with its roller I and socket M, in combination with grooved pulley G, roller D, constructed and arranged as shown and described.

The above specification signed by me, this 31st day of August, 1869.

MOSES LOEB.

Witnesses:

JOHN A. SILENCE,  
A. BERNSTEIN.