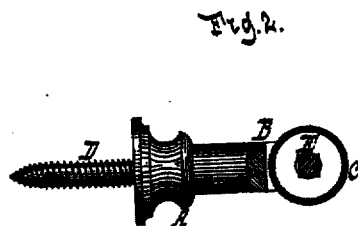
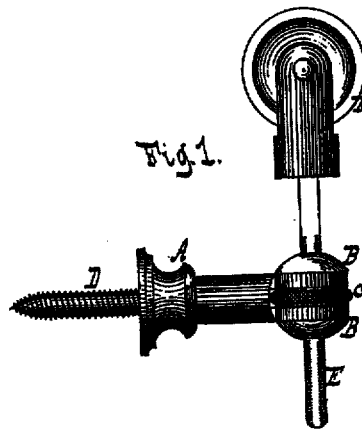


J. F. MIENHARDT.
Curtain-Cord Tightener.

No. 202,852.

Patented April 23, 1878.



Witnesses.
Otto Schupfend.
James W. Wright, Jr.

Inventor.
John F. Mienhardt.
by
Van Lasterwood & Plautz
his attorney

UNITED STATES PATENT OFFICE.

JOHN F. MIENHARDT, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN CURTAIN-CORD TIGHTENERS.

Specification forming part of Letters Patent No. **202,852**, dated April 23, 1878; application filed May 10, 1877.

To all whom it may concern:

Be it known that I, JOHN F. MIENHARDT, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Curtain-Cord Tighteners, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a side view of a tightener containing my improvement, and Fig. 2 a sectional plan or top view thereof.

Similar letters indicate corresponding parts.

My invention consists in the combination of a plate having projecting lips, an intermediate screw-nut, and a non-rotating vertically-adjustable screw-rod passing through both the nut and lips, to the upper end of which the curtain-cord is attached, the said plate being adapted to be secured to a suitable part of the window-frame or other place where the cord may be located, while by turning the nut in either direction a positive sliding motion is imparted to the screw-rod either up or down, as the case may be, and by this means the tension of the cord can be regulated.

In the drawing, the letter A designates a plate, which is constructed with two lips, B B, of corresponding shape, and which project therefrom in like directions, sufficient space being left between said lips for the admission of a screw-nut, C. The plate A is also constructed with a screw-shank, D, or otherwise adapted to be secured to a window-frame or

other place. Each of the lips B B is provided with a hole to admit a screw-rod, E, the upper end of which is bifurcated, and carries a roller, F, over which the curtain-cord is intended to be drawn. The screw-rod E is passed through the holes in the lips B B, and also through the nut C, so that the nut is thereby held in place, while by turning the latter a positive motion can be imparted to the screw-rod in either direction. The screw-rod E is so arranged that it can freely slide in the lips B B either up or down, without, however, being permitted to turn therein, and the best means which I have hitherto devised for effecting this object consists in simply making the screw-rod square, the holes in the lips B B being made of corresponding shape.

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

The combination of a plate having projecting lips, an intermediate screw-nut, and a non-rotating vertically-adjustable screw-rod passing through both the nut and lips, to the upper end of which the curtain-cord is attached, substantially as herein shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 7th day of May, 1877.

JOHN FR. MIENHARDT.

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.