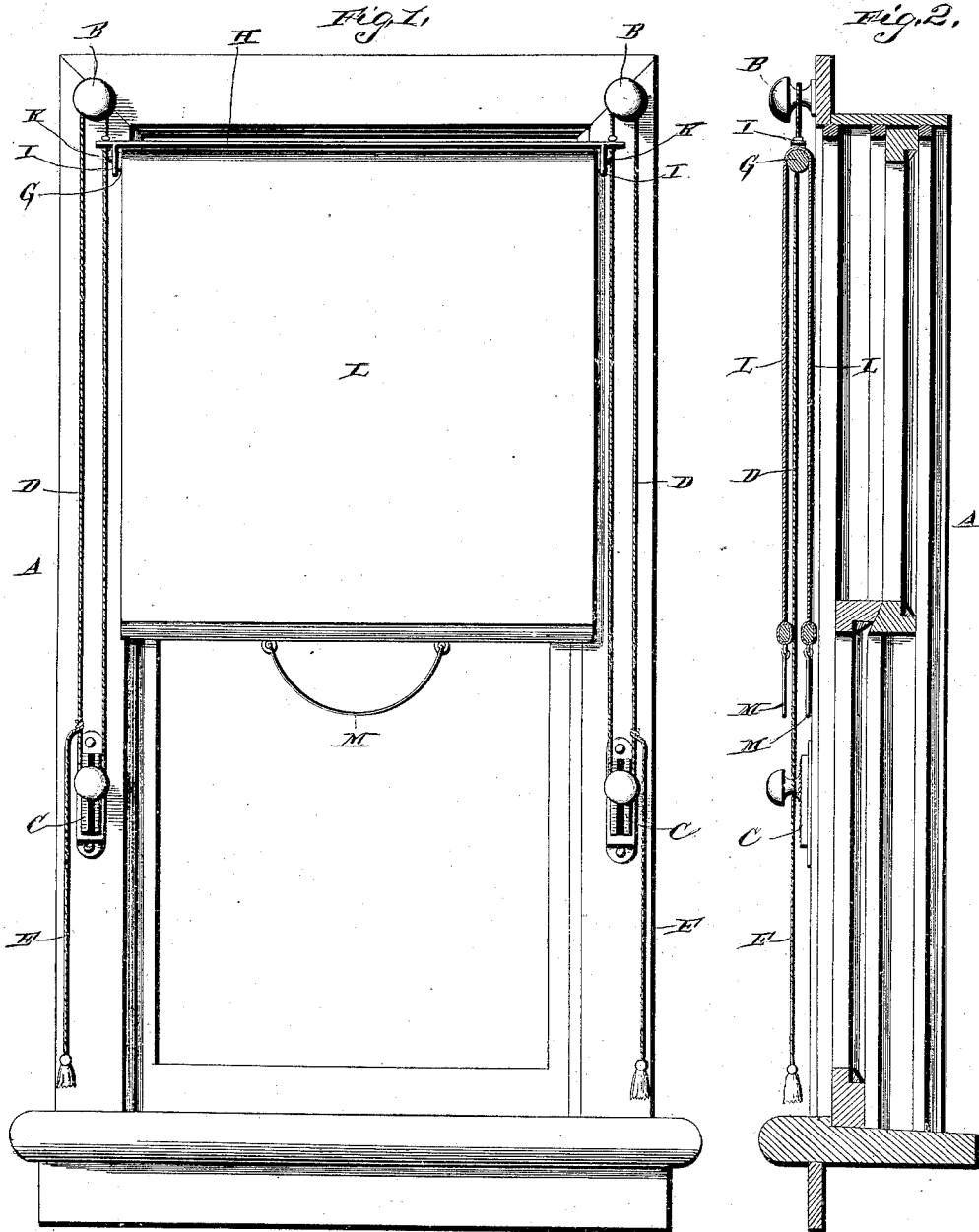


(No Model.)

A. HUFFER.
WINDOW SHADE.

No. 383,053.

Patented May 15, 1888.



Witnesses.

C. B. Taylor,
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Inventor.

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UNITED STATES PATENT OFFICE.

ANNA HUFFER, OF JEFFERSONVILLE, ILLINOIS.

WINDOW-SHADE.

SPECIFICATION forming part of Letters Patent No. 383,053, dated May 15, 1888.

Application filed January 18, 1888. Serial No. 261,102. (No model.)

To all whom it may concern:

Be it known that I, ANNA HUFFER, a citizen of the United States, residing at Jeffersonville, in the county of Wayne and State of Illinois, have invented a new and useful Improvement in Window-Shades, of which the following is a specification.

My invention relates to improvements in window-shades, and it has for its objects to provide means whereby a shade may be adjusted to cover all or any desired part of the window, and thus allow the light to enter either at the top or bottom to any desired extent.

With this object in view the invention consists in a certain novel construction and arrangement of devices, which will be hereinafter more fully described in connection with the accompanying drawings, wherein—

Figure 1 is a front view of a window provided with my improved shade. Fig. 2 is a vertical central section of the same. Fig. 3 is a detail view of the roller and the guard, which is attached thereto.

Referring by letter to the drawings, A designates the frame of the window, to which, on opposite sides at the top, are attached the buttons or knobs B B.

C C represent ratchet cord-tighteners, which are attached to the sides of the frame, respectively, below the said buttons or knobs, and they may be of any desired form.

D D represent endless cords, which are arranged vertically and pass around one of the buttons or knobs and one of the cord-tighteners. These endless cords are provided with the loose cords E E, having tassels on their ends, by which the said endless cords are operated.

G represents a roller, which is mounted at its ends in the depending ears I I of the guard H, which latter may be made of either metal or wire, which is flattened at its ears. The said depending ears I I are provided with bearings i i, in which are mounted the trunnions K, which are secured to the ends of the roller. The ends of the guard are secured to the endless cords D D, so that when the latter are moved the roller is raised or lowered. I preferably attach the guard to the cords by forming perforations i' i' in the ends of the latter, and after passing the cords therethrough knot them on the upper and lower sides of the guard, as seen in the drawings.

The shade L is not attached to the roller, but merely passes thereover, and its ends are

provided with depending cords M M. It will be seen that the ears of the guard prevent the shade from slipping laterally from the roller or becoming twisted, and the body of the guard holds the shade from being lifted from the roller, and thus displaced.

The operation of the shade is as follows: When it is desired to cover the upper half of the window, the roller is drawn to the top of the frame and the shade is arranged so as to hang equally upon both sides of the roller. To cover the lower half of the window, the roller is lowered to the center of the frame by means of the endless cords. When the entire window is to be covered, the roller is raised and the end of the shade adjacent to the window is drawn down as far as desired. If it is preferred to have the entire window open, the curtain-shade may be rolled up by hand and tied with the cords M, which are attached to its ends.

This device, as will be seen from the foregoing, is simple, easily operated, and may be very cheaply manufactured.

Having thus described my invention, I claim—

1. The combination, with the window-frame, of the buttons B B, the cord-tighteners below said buttons, the endless cords passing around the buttons and the cord-tighteners, the guard H, secured to said endless cords and having depending perforated ears, the roller journaled in said ears, and the curtain passing loosely over said roller and depending from the same in front and rear thereof, but not connected thereto, as set forth.

2. The combination, with the window-frame, of the buttons B B, the cord-tighteners C C, below the buttons, the endless cords passing around the buttons and the cord-tighteners, the guard H, having the endless cords passed through its ends and secured thereto, the said guard being further provided with the depending perforated ears I, the roller G, journaled in the said ears, the curtain passing over said roller, but not connected thereto, and the cords M, attached to ends of the curtain, as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ANNA HUFFER.

Witnesses:

M. A. BESTOW,
S. B. BESTOW.