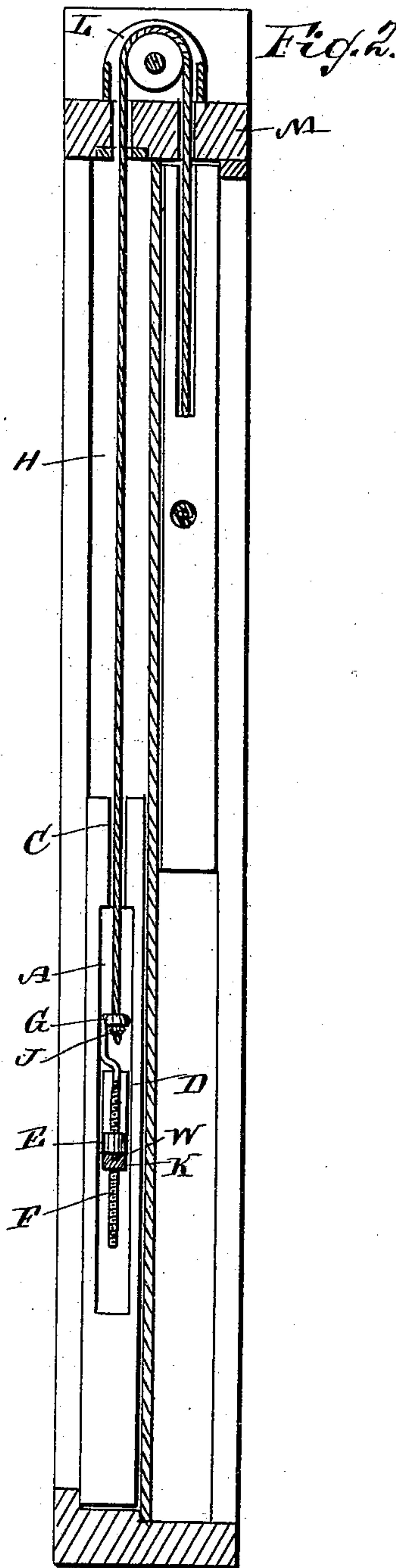
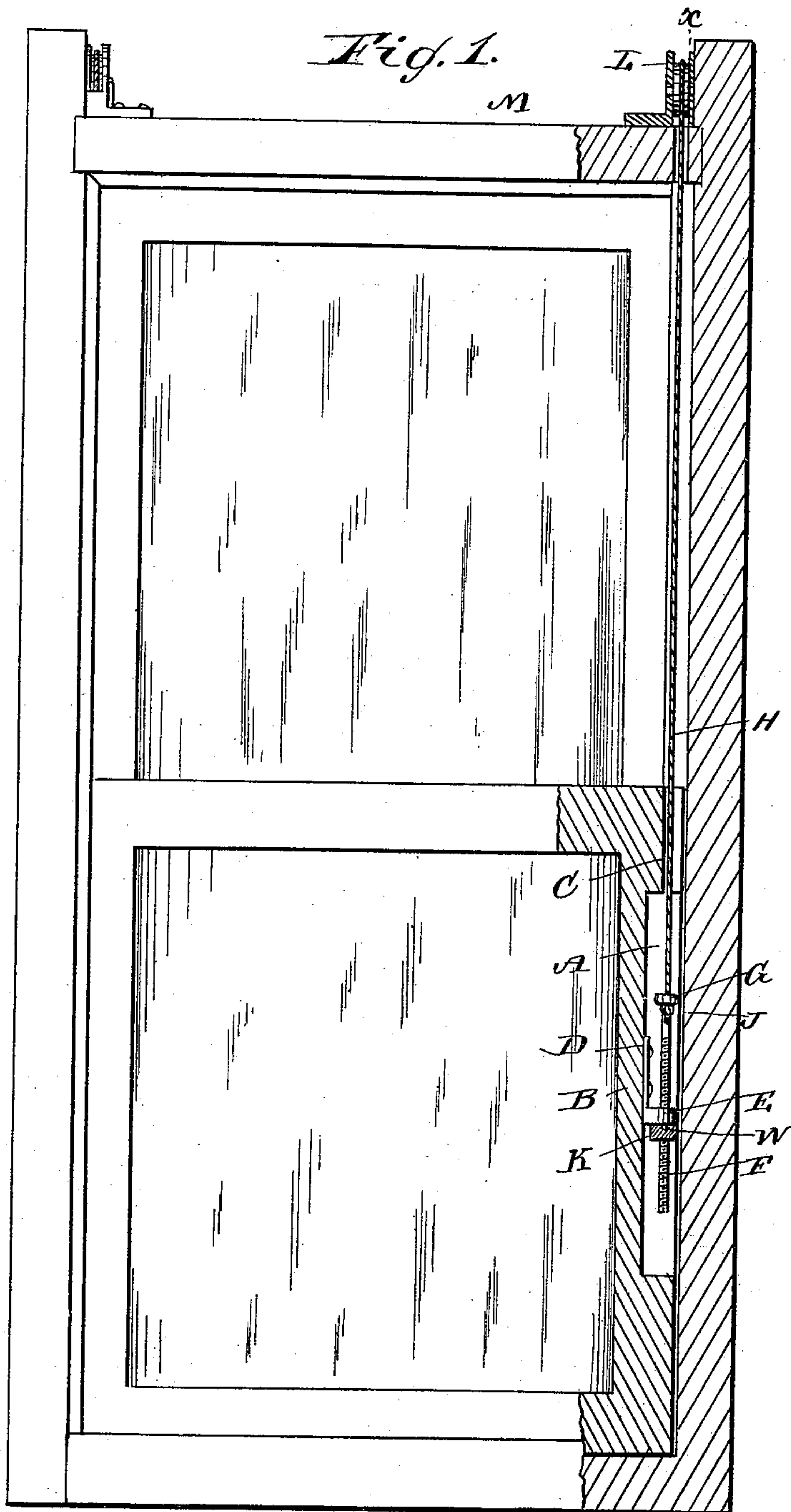


(No Model.)

C. DELLENBECK.
WINDOW HANGING.

No. 333,287.

Patented Dec. 29, 1885.



WITNESSES:

Theo. G. Hoster.
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INVENTOR:

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UNITED STATES PATENT OFFICE.

CALEB DELLENBECK, OF PORTLAND, OREGON.

WINDOW-HANGING.

SPECIFICATION forming part of Letters Patent No. 333,287, dated December 29, 1885.

Application filed October 15, 1885. Serial No. 179,966. (No model.)

To all whom it may concern:

Be it known that I, CALEB DELLENBECK, of Portland, in the county of Multnomah and State of Oregon, have invented certain new
5 and useful Improvements in Window-Hangings, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved device for facilitating the
10 adjustment of the length of sash-cords, which device is simple in construction and effective in use.

The invention consists in the construction and combination of parts and details, as will
15 be fully described and set forth hereinafter, and then pointed out particularly in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate
20 corresponding parts in both the figures.

Figure 1 is a front view of two sashes and a frame provided with my improved hanging, parts being broken out and others being in section. Fig. 2 is a cross-sectional view of the
25 same on the line *x x*, Fig. 1.

A longitudinal recess, A, is cut in the outer edge of each side rail, B, of the lower sash, and from the top of each recess a groove, C, extends to the top rail of the sash.

30 In each recess A a plate, D, is secured, from which a lug, E, projects laterally, and through an aperture in each lug E a screw, F, is passed, on the upper end of which an eye or loop, G, is formed, through which one end of a sash-
35 cord, H, is passed, and below said eye a knot, J, is formed by the end of said sash-cord. A nut, K, is screwed on each screw F, and rests against the under side of the lug E. The sash-cords H are passed over pulleys L on the
40 top cross-piece, M, of the window-frame, and each sash-cord H is connected with both sashes. The sash-cords H can be connected with the upper sash in the usual manner, as only one

of my improved devices is required for each sash-cord. No weights are required, as the
45 sashes balance each other.

To lengthen or shorten the sash-cords, the nuts K are turned to move the screw-rods F up or down, as circumstances may require. The cords may be so adjusted that when the
50 top rail of the upper sash is in contact with the top bar of the window-frame the bottom rail of the lower sash will be in contact with the sill; or the said cords can be so adjusted that when the bottom rail of the lower sash is
55 on the sill the top rail of the upper sash is a short distance from the top bar of the window-frame, thus forming a ventilating opening or slot. The lug E is provided on the under side with one or more ribs or projections, and the
60 nut K is provided on the upper side with one or more grooves, W. When the device has been adjusted so that the top of the nut K rests against the under side of the lug E, the projections on the lug pass into the grooves of
65 the nut, and thus lock the nut in place and prevent further turning of the same.

Cords, chains, or bands may be used in hanging the sashes.

The sashes are constructed and guided in
70 the usual manner.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with a sash, of a lug projecting from the same, which lug has projections on its under side, a screw-rod passed through an aperture in said lug, a nut screwed on said rod, which nut has grooves in its top, and a sash-cord connected with said screw-rod,
75 80 substantially as herein shown and described.

CALEB DELLENBECK.

Witnesses:

NATHAN DEARAY,
LEWIS M. PARRISH.