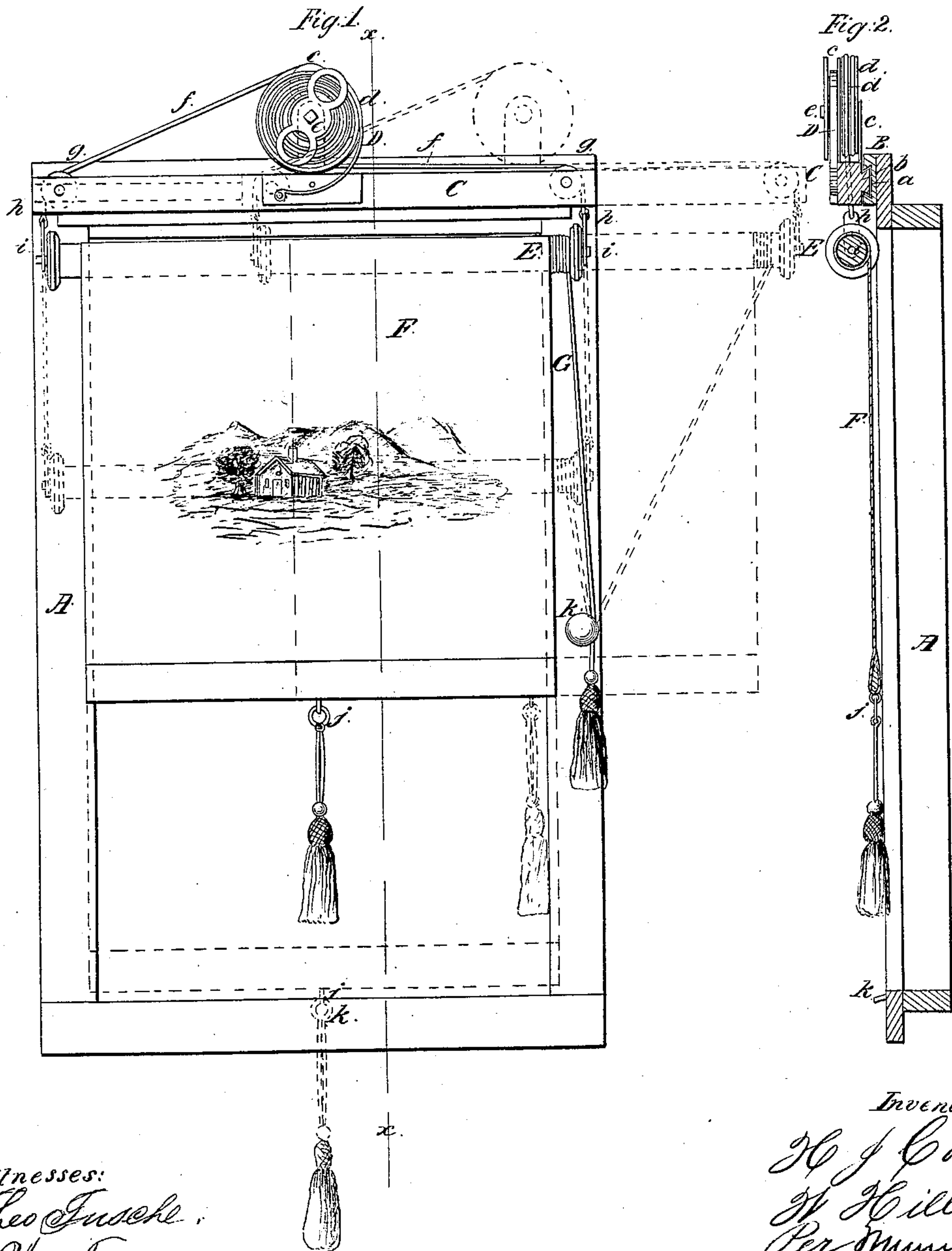


*Cox & Hill,*  
*Curtain Fixture,*  
*N<sup>o</sup> 67,272,      Patented July 30, 1867.*



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# United States Patent Office.

H. J. COX AND WALLACE HILL, OF LONG EDDY, NEW YORK.

*Letters Patent No. 67,272, dated July 30, 1867.*

## IMPROVED MODE OF APPLYING WINDOW-SHADES TO WINDOWS.

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

### TO ALL WHOM IT MAY CONCERN:

Be it known that we, H. J. COX and WALLACE HILL, of Long Eddy, in the county of Sullivan, and State of New York, have invented a new and improved Mode of Applying Window-Shades to Windows; and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein we have set forth the nature and principles of our said improvements, by which our invention may be distinguished from all others of a similar class, together with such parts as we claim, and desire to have secured to us by Letters Patent.

This invention relates to a new and improved mode of applying window-shades to windows, whereby the former are rendered capable of being rolled up either from the top or bottom, as required, and also rendered capable of adjustment laterally, and of being very readily applied to and detached from the window. In the accompanying sheet of drawings—

Figure 1 is a front or face view of a window having a shade applied to it according to our invention.

Figure 2, a transverse vertical section of the same, taken in the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

A represents a window-frame, to the top of which a horizontal cleat or strip, B, is attached, having a dove-tail groove, *a*, made in it, extending its whole length, to receive a dove-tail rib, *b*, at the rear side of a bar, C, which admits of said bar being readily applied to and detached from the window-frame, as the rib *b* may be readily inserted in and withdrawn from the groove *a*. The bar C has two uprights *c c* attached to it, between which two pulleys *d d* are fitted on the same axis *e*, the pulleys being secured or keyed on the axis, and one end of the latter being connected to the inner end of a coil-spring, D, the outer end of which is attached to the bar C. The pulleys *d d* have cords *f f* attached to them, one to each, and these cords wind around the pulleys in opposite directions, as shown in fig. 1, and pass over pulleys *g g* in the ends of the bar C, and are attached to bars *h h*, in which the pivots *i i* of a roller, E, are fitted, to which the shade F is attached. The spring D keeps the roller E in an elevated state, or at the top of the frame A, and the shade F may be wound upon it and raised from the bottom of the frame by pulling a cord, G, which is wound around one end of the roller E, the shade being retained at any desired point by winding the cord around a knob or button, *k'*, in one side of the window-frame.

In order to wind up the shade at the top, and consequently lower it at the top of the window, a ring, *j*, at the centre of the bar in the bottom of the shade is fitted upon a tack or button, *k*, in the sill of the window-frame, and then by pulling the cord G the shade will be wound upon the roller and lowered at the top, the roller being retained at any point by winding the cord around the knob or button *k*, the spring bringing the roller up when the cord is released. The shade may also, by moving the bar C, be adjusted laterally when desired, as indicated in red in fig. 1.

Having thus described our invention, we claim as new, and desire to secure by Letters Patent—

The spring D, pulleys *d d*, and cords *f f*, connected with the shade-roller E, in combination with the cord G and the ring *j* and tack or hook *k* or their equivalents, for holding or securing the bottom of the shade, when necessary, all arranged substantially as and for the purpose set forth.

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Witnesses:

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