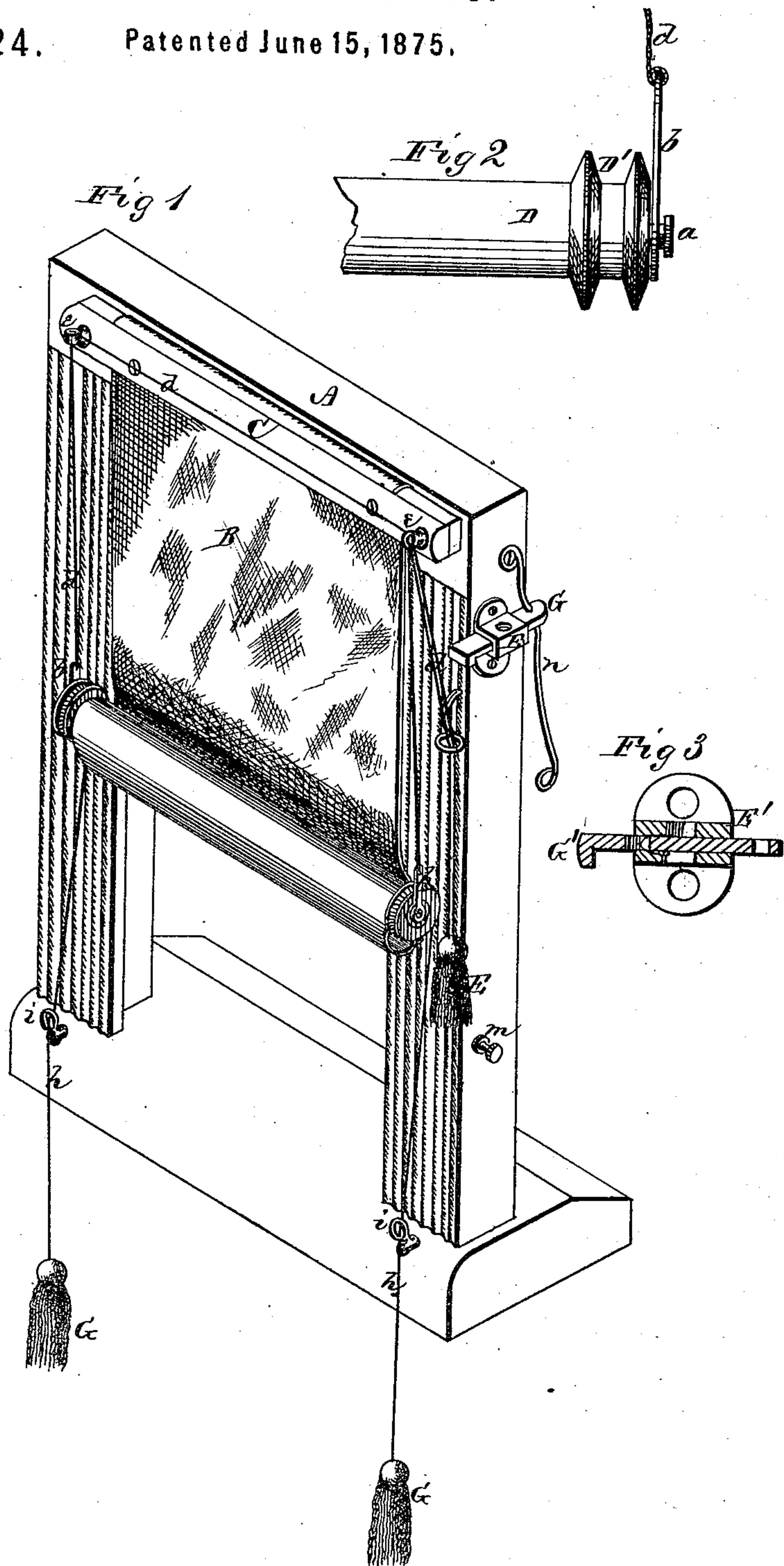


H. M. CONVERSE.
Curtain-Fixture.

No. 164,524.

Patented June 15, 1875.



WITNESSES
F. L. Ostrander
C. L. Evers

By *per* Henry M. Converse, INVENTOR
Alexander Mason
Attorney

UNITED STATES PATENT OFFICE.

HENRY M. CONVERSE, OF WATERLOO, CANADA, ASSIGNOR OF ONE-HALF
HIS RIGHT TO GEORGE S. CODD, OF SAME PLACE.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. **164,524**, dated June 15, 1875; application filed
March 17, 1875.

To all whom it may concern :

Be it known that I, HENRY M. CONVERSE, of Waterloo, in the Province of Quebec and in the Dominion of Canada, have invented certain new and useful Improvements in Window Shades; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a curtain-fixture, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of a window and curtain with my fixture applied thereto. Figs. 2 and 3 are detached views of certain parts thereof.

A represents an ordinary window-frame, with curtain B, the upper edge of said curtain being permanently attached to the frame by means of cleats or bars C C, or other suitable means. The lower edge of the curtain is fastened to a roller, D, which is hung upon pivots *a a* in two short bars, *b b*, and these bars suspended from cords *d d*. These cords pass through eyes or loops *e e*, or over rollers attached to the bars C C, and their other ends attached to a tassel, E. At each end of the roller D is a pulley, D', around which is wound a cord, *h*, passing through a suitable guide-eye, *i*, and having a weighted tassel, G, attached to its other end.

By pulling down on the tassel E the cords *d* and bars *b* will raise the roller D, and at the

same time the weighted tassels G, by their cords *h*, will rotate the roller in its bearings, so as to roll up the curtain as fast as the roller rises vertically. In lowering the roller the curtain will unwind from the roller, and thereby rotate the same and wind up the cords *h* again on the pulleys D'.

This invention may be applied to curtains of any size, and the curtain may be held at any height desired by simply fastening the cords *d* on a knob, *m*, at the side of the frame.

For ordinary window-curtains the cords *d* are to pass through holes in a box, E', attached to the window-frame, and through a hole in a slide, G', placed therein. Through one end of the slide G' is passed a rod, *n*, the upper end of which is pivoted to the frame, and the lower end provided with an ordinary tassel, to fetch the slide in position to bind on the cord *d*, and thereby hold the curtain at any height desired.

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

The combination, with a curtain attached permanently to the frame at its upper end, of the roller D, with pulleys D' and journals *a*, the bars *b*, cords *d*, with tassel E, and the cords *h*, with weighted tassels G, and a device attached to the window-frame, which automatically holds the curtain at any desired point, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 1st day of March, 1875.

HENRY M. CONVERSE. [L. S.]

Witnesses:

W. R. LINDSAY,
D. L. ALLEN.