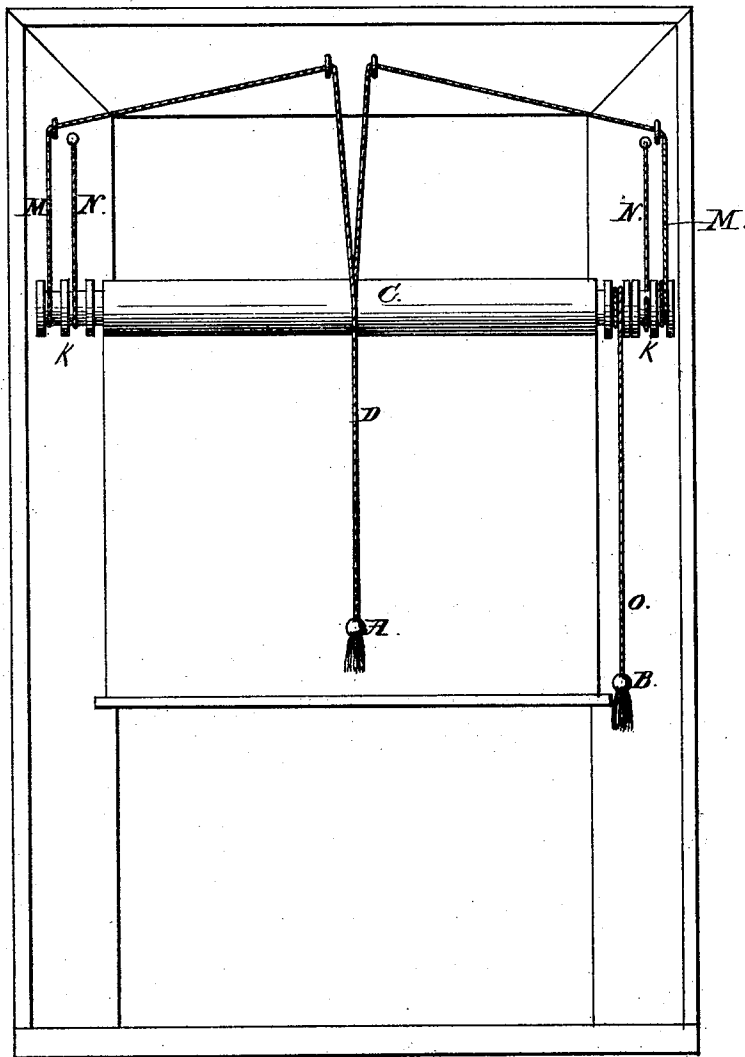


J. COLLINS.
CURTAIN FIXTURES.

No. 178,512.

Patented June 13, 1876.



Witnesses:
Thos. Knox.
A. W. Kennard.

Inventor:
Jarus Collins.

UNITED STATES PATENT OFFICE.

JAIRUS COLLINS, OF FAIRVIEW, OHIO, ASSIGNOR TO HIMSELF AND JOHN D. SALTSGAVER, OF SAME PLACE.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. **178,512**, dated June 13, 1876; application filed March 13, 1876.

To all whom it may concern:

Be it known that I, JAIRUS COLLINS, of Fairview, in the county of Guernsey and State of Ohio, have invented a new and useful Improvement in the Adjustment of Window-Curtain, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing.

The object of my invention is to adjust a window-curtain to any height desired by rolling it down from the top or taking it up from the bottom by the use of one roller, C, to take the curtain up or let it out when desired.

The cords N N, or their equivalents, to which the roller is suspended, are fastened to the double-grooved end pieces K K and the top of the window-casing, so that when the roller ascends it takes them up, and when it descends it lets them out. The cords M M are also fastened to the double-grooved end pieces K K, and pass through the hooks or screw-eyes at the top of the window-casing, and unite in one cord, D, so that, by pulling on the

cord D the roller will ascend and unwind the curtain and the cords M M, and take up the cords N N, and, by lifting the weight A, the roller will descend by its own weight and take up the curtain and the cords M M, and unwind the cords N N. The cord O is fastened to a groove on the end of the roller C, so that, by pulling on it, the roller will revolve in the double end pieces K K and take the curtain up from the bottom, and, by lifting the weight B, the weight of the curtain will cause the roller to revolve in the opposite direction and allow it to descend to the bottom of the window.

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

The double-grooved end piece K K, in combination with the cords M M and N N, operated in the manner set forth.

JAIRUS COLLINS.

Witnesses:

THOS. KNOX,
N. W. KENNON.