

L. J. EARLL.
Curtain-Fixtures.

No. 140,901.

Patented July 15, 1873.

Fig. 1.

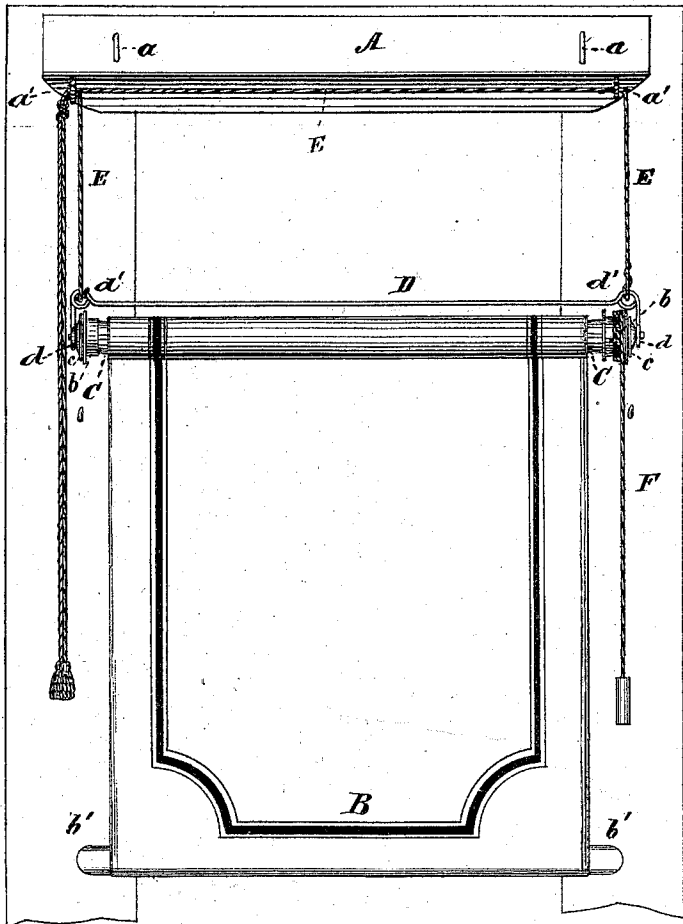


Fig. 2.

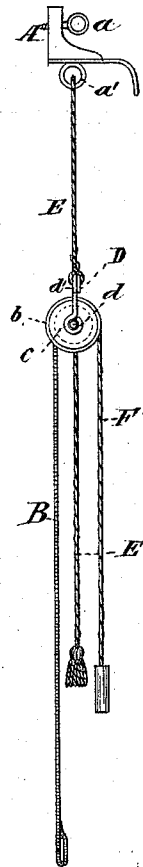


Fig. 4.

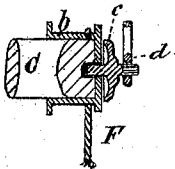
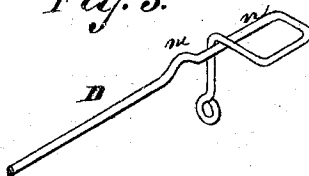


Fig. 3.



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UNITED STATES PATENT OFFICE.

LLOYD J. EARLL, OF UNION CITY, PENNSYLVANIA.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. **140,901**, dated July 15, 1873; application filed March 18, 1873.

To all whom it may concern:

Be it known that I, LLOYD J. EARLL, of Union City, in the county of Erie and State of Pennsylvania, have invented a new and Improved Curtain-Fixture; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a front elevation; Fig. 2, an end view; and Figs. 3 and 4 are detail views, respectively, of winding-drum and a portion of wire-frame D, slightly modified.

The invention consists in the improvement of curtain-fixtures, as hereinafter described and pointed out in the claim.

In the drawing, A represents a window-cornice, attached to window-frame by the eye-screws *a*. B is a curtain having one edge fastened in a roller, C, provided with a winding-drum, *b*, on one or both ends, and weighted by a bottom piece, *b'*. In the center of each end drum is inserted a journal of a double-pivoted disk, C, concaved on the side next the drum, and convexed on the outside. These can be economically manufactured, sold in hardware stores, and consequently replaced. The outer journals of the disks C C are received in the loose bearings *d d*, which are expanded outwardly from the wire D, (to which they are attached,) and allowed to spring into place upon the journals. This rod D, at its junction with each bearing end *d*, is turned so as to form an eye, *d'*. Through the eyes *d' d'*, and the eye-screws *a' a'* on the under side of cornice, pass the cords E E, by which, together with the rod D, the roller and curtain are suspended from cornice at any desired distance. F is a cord, attached to the periphery of disk C, and used for rotating the roller. It

is weighted at the lower end, so as to counter-balance the curtain at any point of elevation.

By this construction, the wire-frame D *d d'* not only allows the roller to be operated as usual in rolling up the curtain, and also the curtain to be suspended under or at a greater or less distance from the cornice, but serves as a smoother, which compels the curtain to wind up equally through its whole width, and lie evenly upon the roller. This remedies a very great inconvenience in ordinary curtain-fixtures, wherein the greatest particularity is required in order to cause the curtain to roll up evenly.

In some cases, I propose to make the suspension-wire D of the form shown in Fig. 3, the suspension-cords being attached at the point *m* and the eyes *n*, by being caught upon hooks in the jambs of the window-frame serving to securely hold the curtain-roller at any desired position.

If it is desired to use the fixtures on a window without a cornice, the eyes from which it is suspended may be screwed into the window-casing.

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

The combination of curtain B, suspended by adjustable cords from the cornice, the wire-frame having bearings *d d* and eyes *d' d'*, and the double-journalled detachable disks C C, all constructed and relatively arranged in connection with the same curtain-fixture, as and for the purpose described.

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