

WILLIAM B. HAZZARD.
Improvement in Reversible Shade-Fixtures.
No. 126,458. Patented May 7, 1872.

Fig: 1.

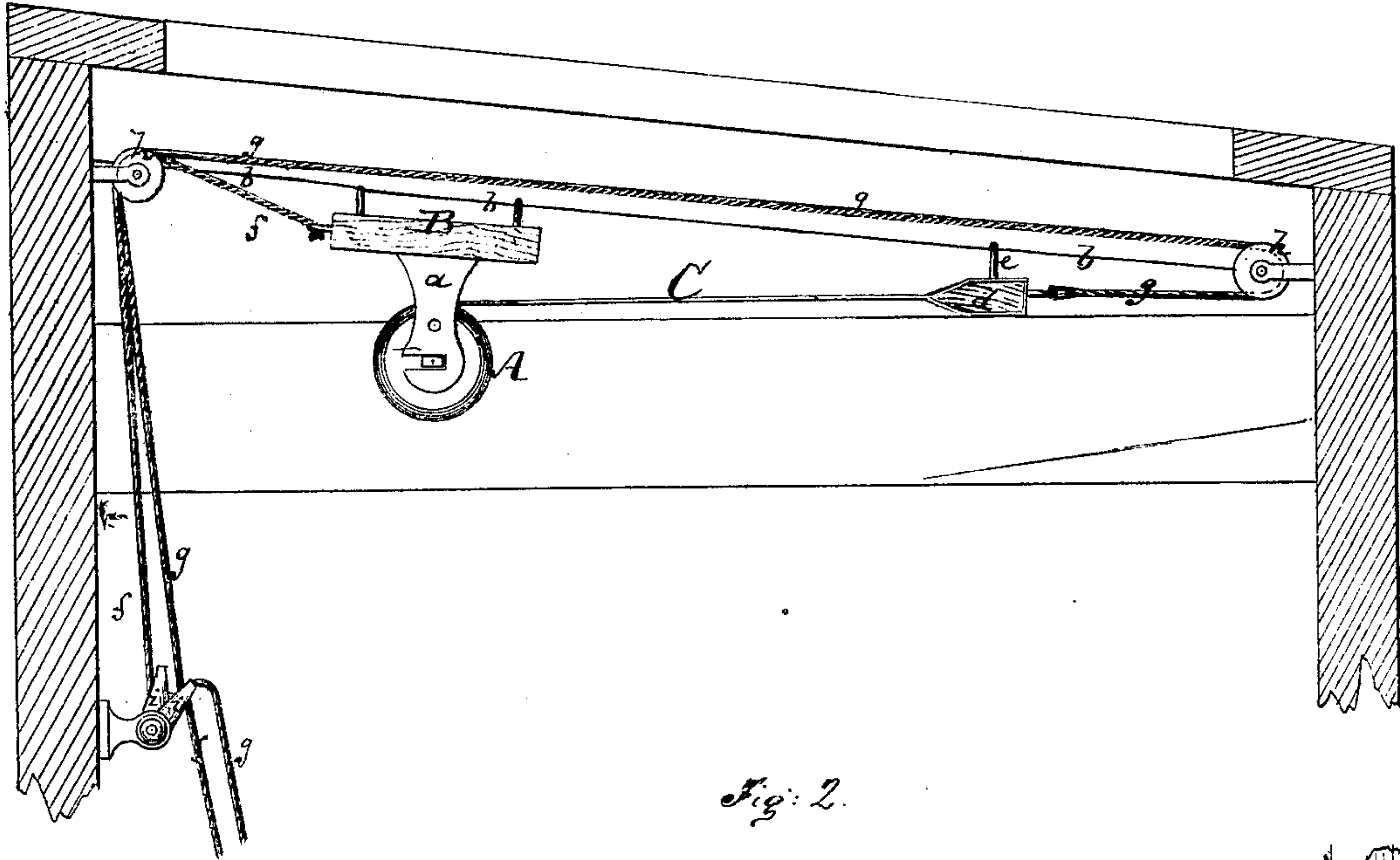
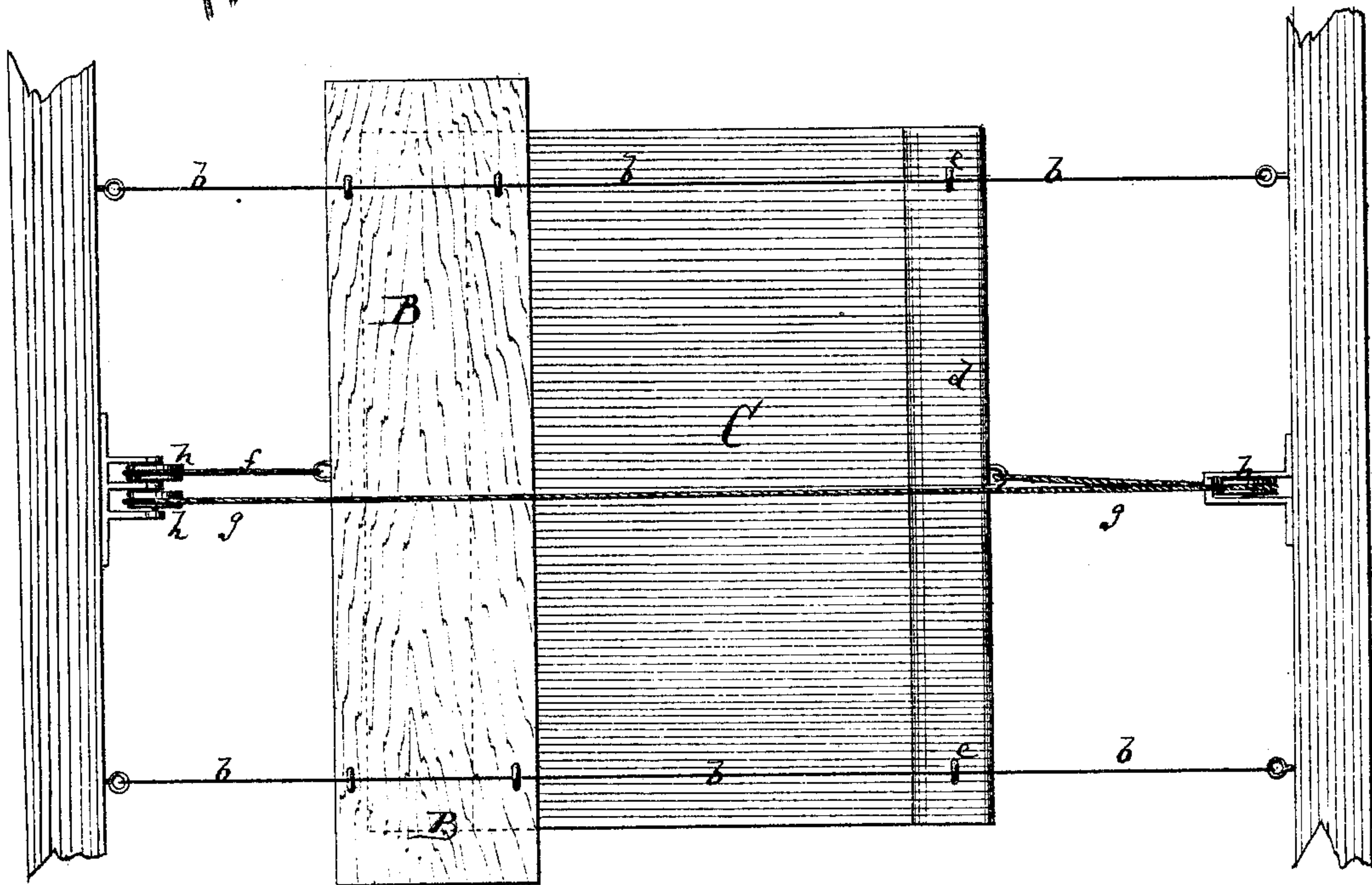


Fig: 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM B. HAZZARD, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN REVERSIBLE SHADE FIXTURES.

Specification forming part of Letters Patent No. 126,458, dated May 7, 1872.

Specification describing a new and Improved Reversible Shade Fixture, invented by WILLIAM B. HAZZARD, of Philadelphia, in the county of Philadelphia and State of Pennsylvania.

Figure 1 represents an edge view of my new reversible shade fixture. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to permit the adjustment of window-shades in either direction, so that a shade can be placed opposite any one part of a window wherever it may be required. The invention is more particularly useful for photographic establishments, hot-houses, &c., where the rays of light are to be controlled with great exactness. It consists in the arrangement of a sliding spring-roller supported on wire tracks and connected with a cord, whereby it can be drawn up, while the lower end of the shade has another cord, whereby it can be drawn down.

A in the drawing represents a spring-roller as used for ordinary window-shades. It has its bearings in ears *a a*, that project from a bar or plate, B. This bar or plate B extends transversely across the window and slides on wires *b b* that are stretched lengthwise on the window-frame, as shown. C is the window-shade fastened with one end to the roller A.

Its other end, containing a rod, *d*, as usual, has projecting loops, *e e*, which embrace the rods or wires *b*. A cord, *f*, is connected with the plate B, and another cord, *g*, with the rod *d* or lower end of the shade. Both these cords extending over friction-rollers *h h*, are conducted to suitable fasteners *i i*, whereby they can be secured. By drawing on either one or the other of these cords the shade will be drawn up or down. The tendency of the spring in the roller A is to wind the shade up. Therefore, whenever one of the cords is slackened, the spring will cause the end of the shade thus loosened to slide toward the other end, and thus shorten the shade in suitable manner. By this arrangement, therefore, shades can be controlled in both directions.

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

The spring-roller A, having shade C thereon, and plate B having ears *a a* below and loops above, in combination with wires *b b*, rod *d* having loops *e*, the cords *f g*, friction-rollers *h h*, and fasteners *i i*, all arranged to form an improved reversible shade fixture.

WILLIAM B. HAZZARD.

Witnesses:

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