

(No Model.)

P. E. GÉRARD.

CURTAIN FIXTURE.

No. 262,398.

Patented Aug. 8, 1882.

Fig. 1.

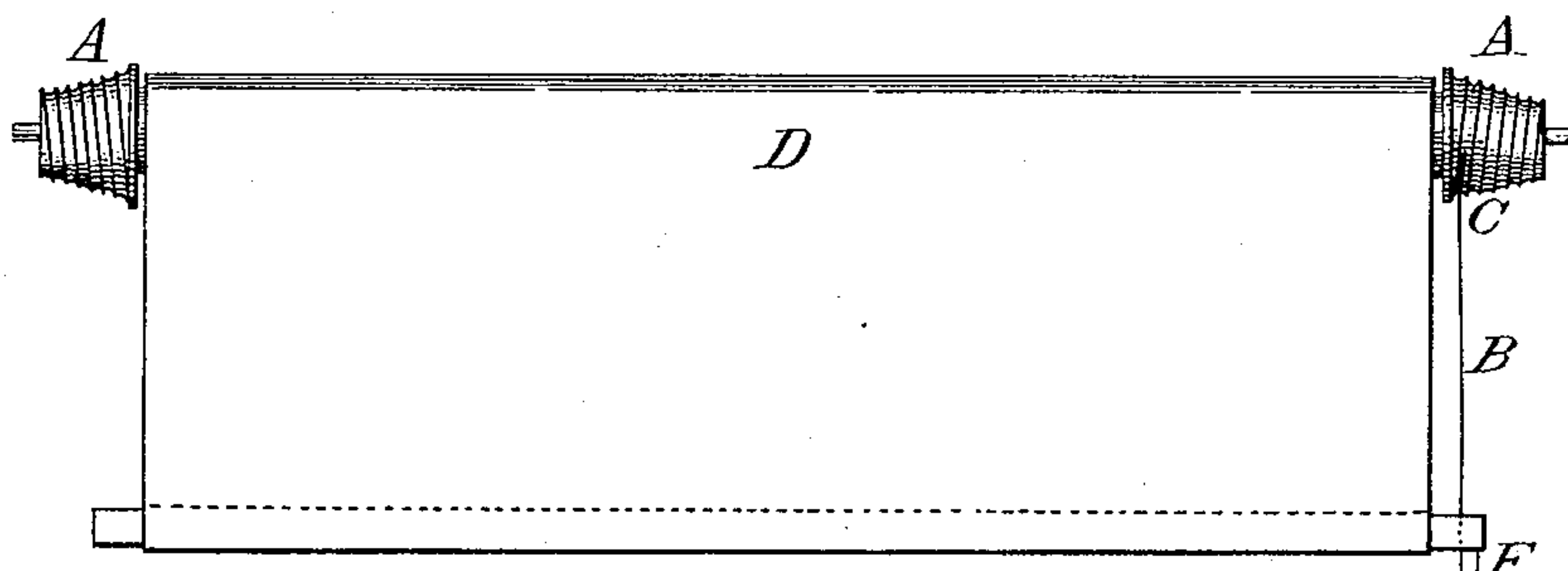
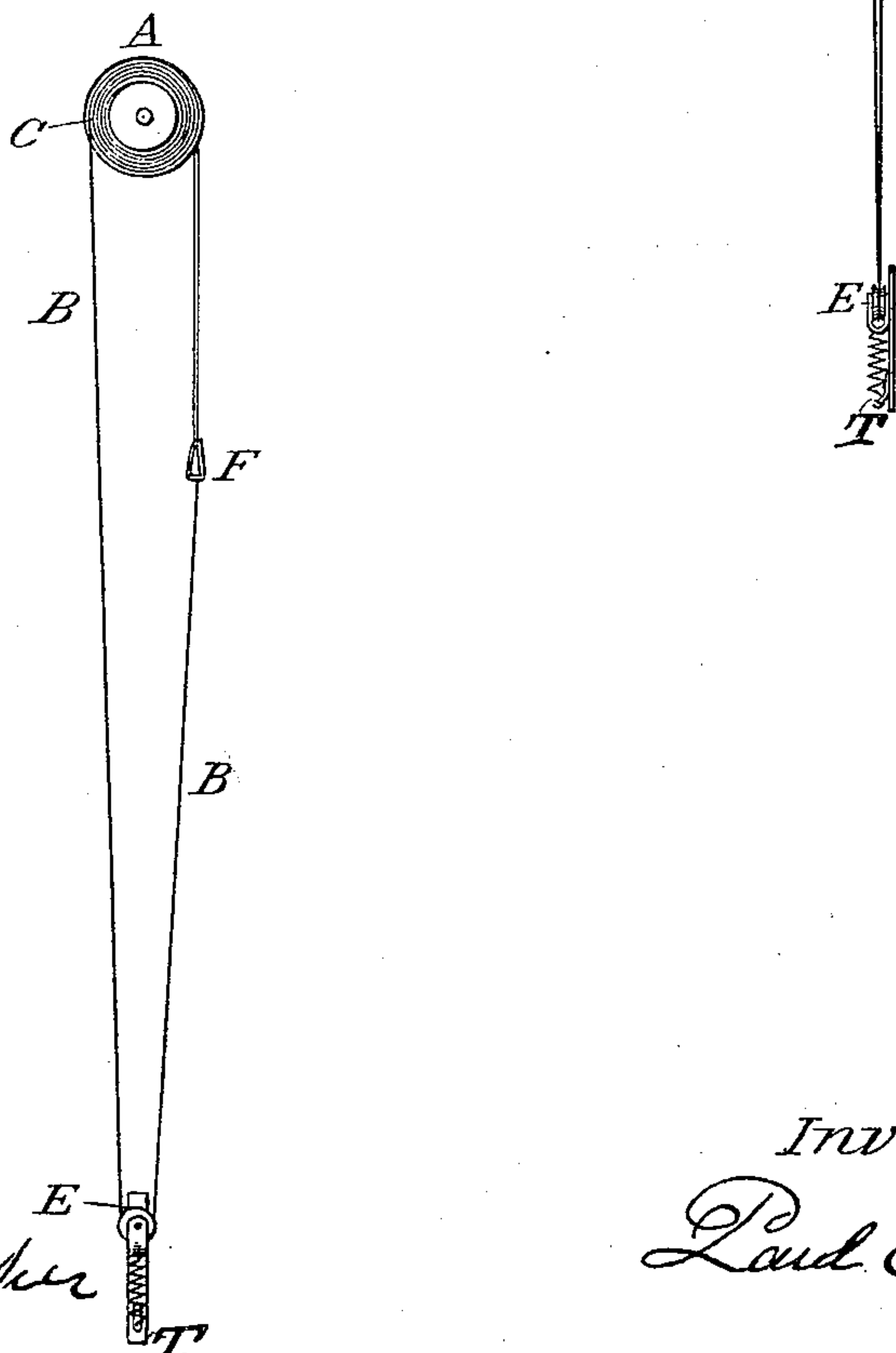


Fig. 2.



Witnesses:

Patrick Gallagher
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UNITED STATES PATENT OFFICE.

PAUL E. GÉRARD, OF NEW YORK, N. Y.

CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 262,398, dated August 8, 1882.

Application filed April 12, 1882. (No model.)

To all whom it may concern:

Be it known that I, PAUL E. GÉRARD, of New York, in the county of New York, State of New York, have invented certain new and useful Improvements in Window-Shades; and I do hereby declare that the following is a full, clear, and exact description of the invention.

The object of my invention is an improvement in window-shades on railroad-cars and steamboats, &c.

The invention relates to a window-shade to stop at any place required in lowering and raising, and to be perfectly secure.

The invention consists of a connection, by means of a cord or chain and a conical spiral which is secured on the shade-roller, of the said roller with the bottom of the shade. The cord, being secured to the spiral pulley, winds and unwinds thereon, and, being attached to the lower end of the shade after passing around a pulley near the window-seat, follows the movement of the shade, with a tension thereon. The pulley on the roller being conical and spiral, said cord winds on the spiral with the same diameters as the shade upon the roller, and with the arrangement of a spring-connection of the lower pulley with the casing secures at all times the same tension on the cords and shade, the whole being constructed in a manner as hereinafter described and shown.

Reference being had to the accompanying drawings, Figure 1 is a front elevation of my

improvement. Fig. 2 is the end elevation of Fig. 1.

Similar letters of reference occurring in both figures indicate like parts.

D is a shade and roller, made of any suitable material; A, a conical spiral on which is attached cord B at point C. Said cord is carried around a pulley, E, secured to a fixed point, T. In lowering the shade the cord winds on the conical spiral A, and vice versa, the tension of the cord being secured by a spring-connection of pulley E with the point T. As the roller winds or unwinds a greater length of the shade when the latter is nearly all wound upon the roller than when nearly unwound, the consequent slacking or tightening is compensated by the varying diameters of the conical spiral, together with the spring-connection of E with T.

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

A shade-fixture consisting of the combination, with the shade and its roller, of a conical spiral, A, cord B, spring and pulley E, and fixed point T, arranged substantially as shown and described.

P. E. GÉRARD.

Witnesses:

PATRICK GALLAGHER,
GEORGE MULLEY.