

S. HARTSHORN.
SHADE FIXTURE.

No. 44,624.

Patented Oct. 11, 1864.

Fig. 1.

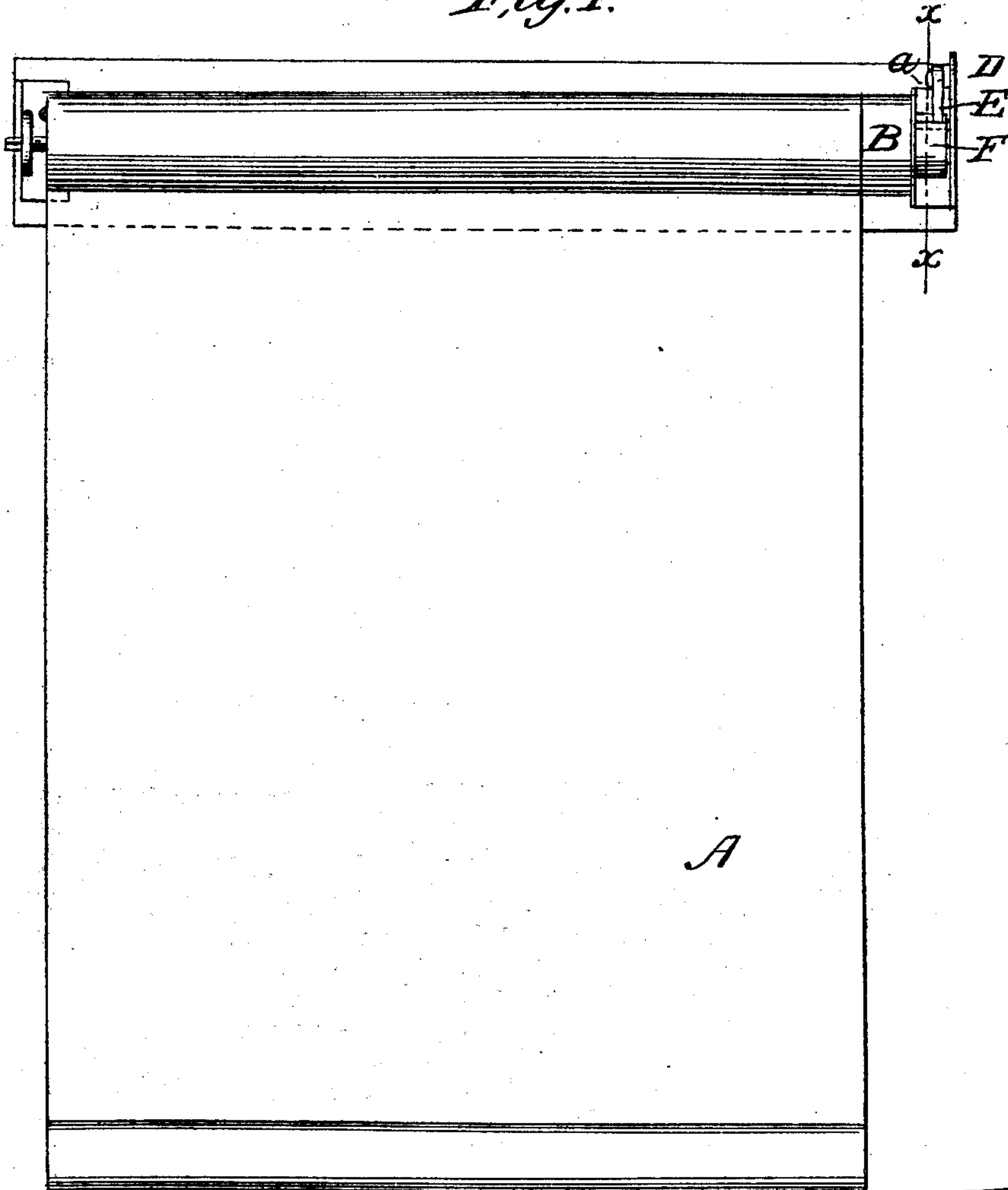


Fig. 2.

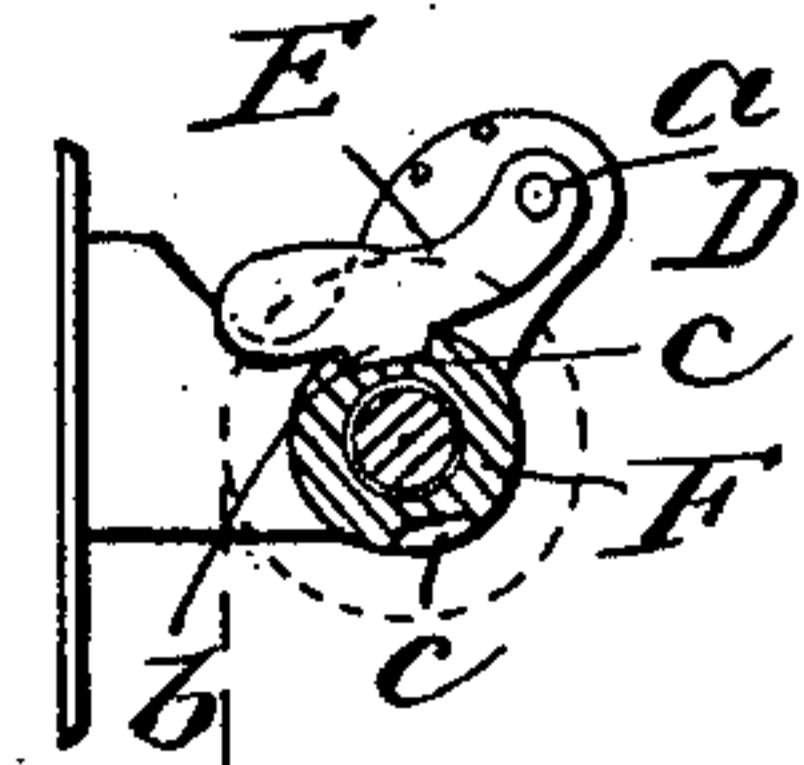


Fig. 3.

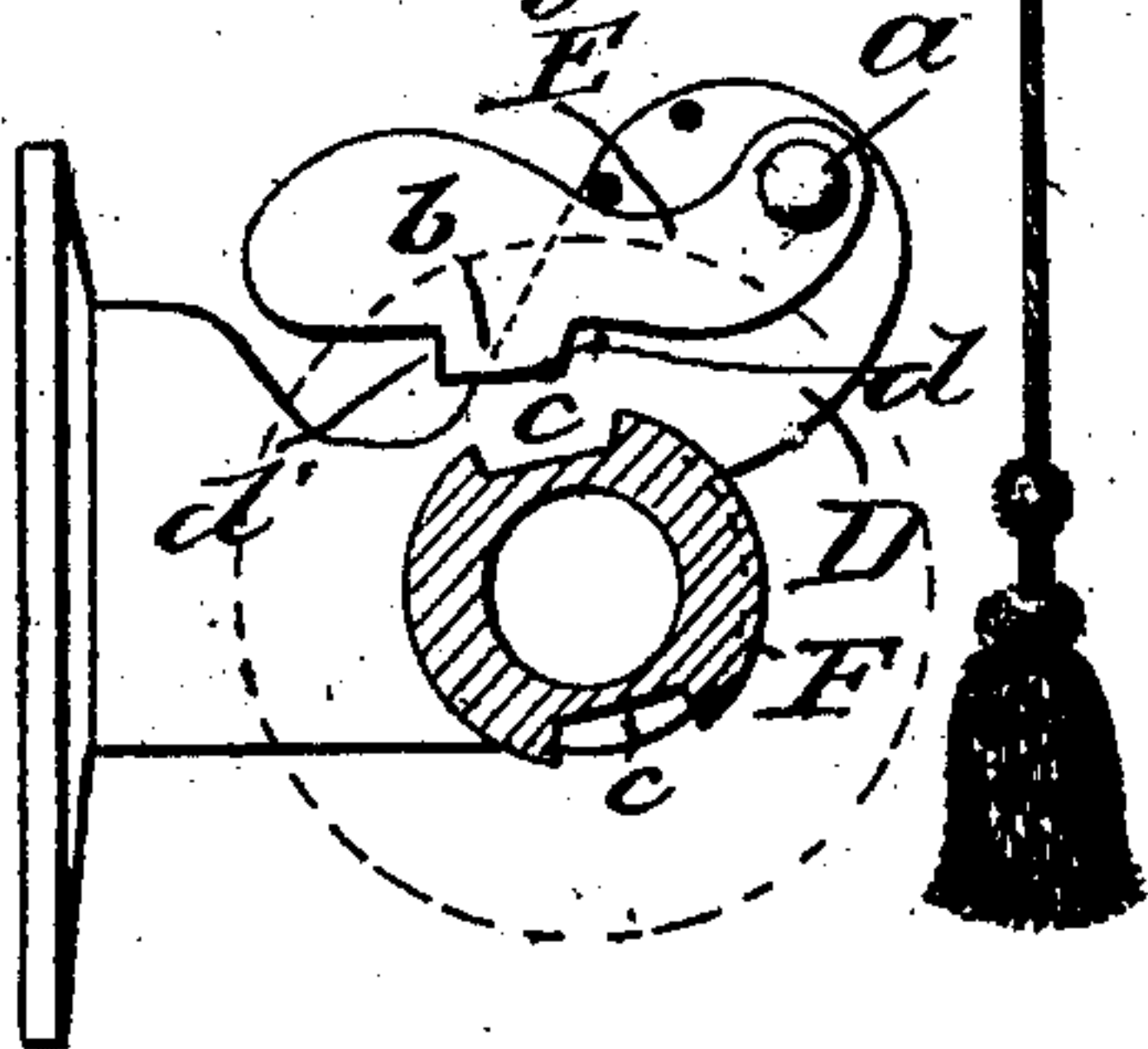


Fig. 4.

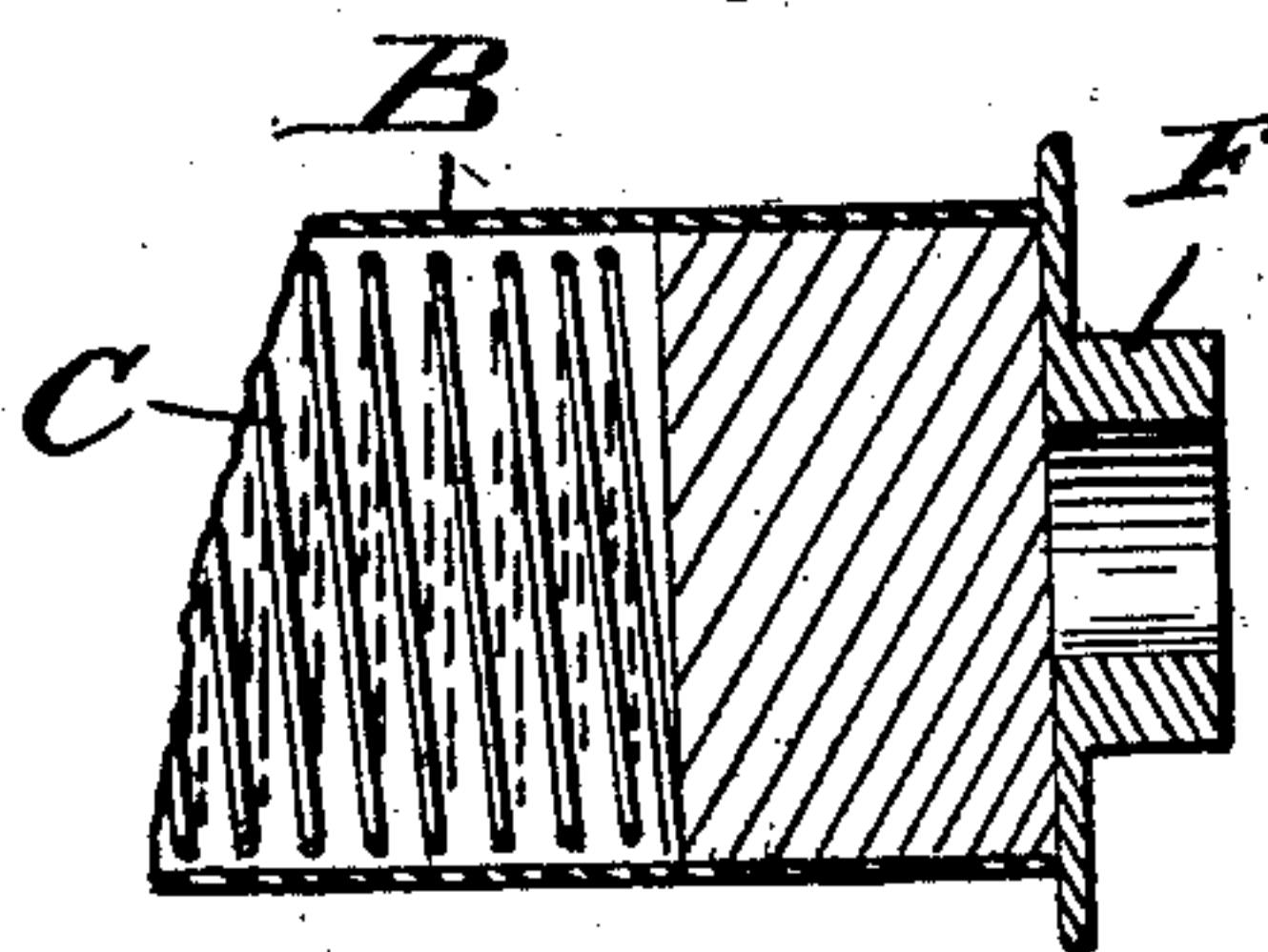
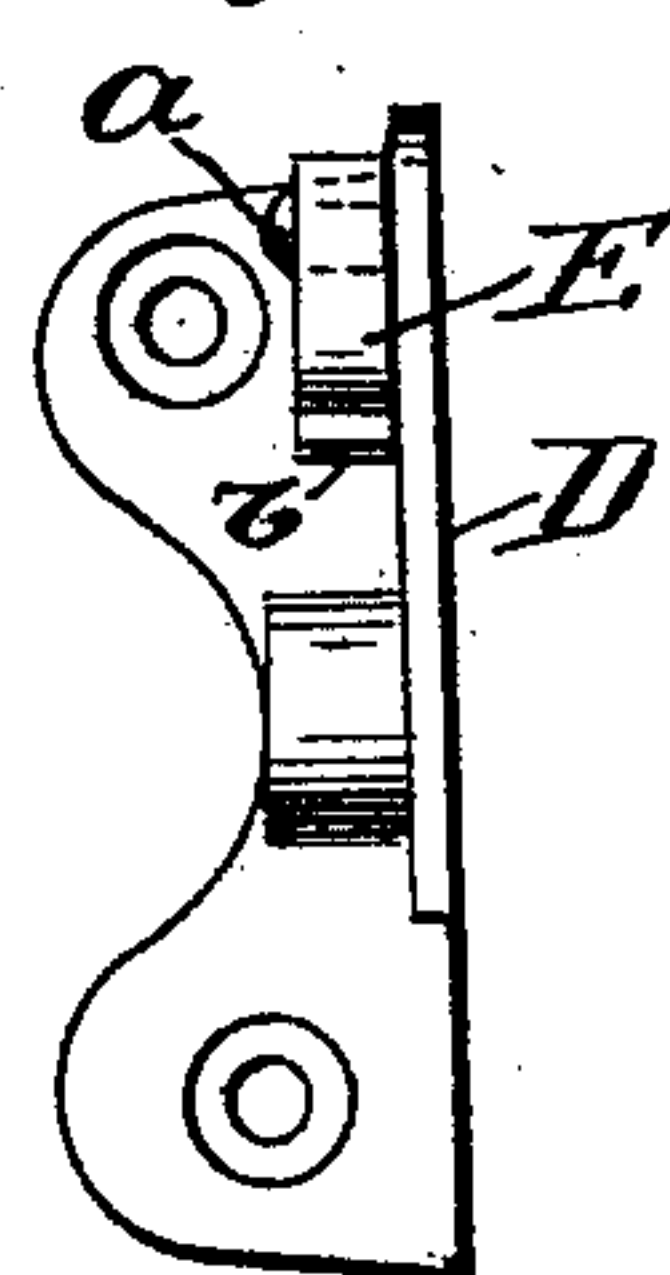


Fig. 5.



Witnesses

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STEWART HARTSHORN, OF NEW YORK, N. Y.

IMPROVED CURTAIN-FIXTURE.

Specification forming part of Letters Patent No. 44,624, dated October 11, 1864.

To all whom it may concern:

Be it known that I, S. HARTSHORN, of the city, county, and State of New York, have invented a new and Improved Shade-Fixture; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a front view of my invention applied to a window-shade; Fig. 2, a transverse section of the same, taken in the line *x*, Fig. 1; Fig. 3, an enlarged view of Fig. 2, showing a different position of the pawl; Fig. 4, a longitudinal central section of a portion of the shade-roller; Fig. 5, an enlarged detached front view of the bracket and pawl pertaining to the invention.

Similar letters of reference indicate like parts.

This invention relates to an improvement in that class of shade-fixtures in which the shade-roller is provided with a spiral spring for the purpose of automatically winding up the shade.

The invention consists in providing the shade-roller with a stop or fastening composed of a pawl which engages with notches in a hub attached to one of the end plates of the roller, all being arranged in such a manner that the shade may be retained or held at different points or heights in the length or scope of its movement, and the shade adjusted by a simple manipulation of the same, as set forth, the usual cord for operating or turning the shade-roller being dispensed with entirely, as well as counterpoise, which have in some instances been employed in connection with spring-rollers for holding the shade at any desired point.

A represents a window-shade, and B its roller, the latter having a spiral spring, C, fitted within it and arranged in such a manner that it will have a tendency to turn the roller B and wind up the shade. The spring C is shown in Fig. 4. This feature, however, of a spring within a shade-roller for the purpose of winding or rolling up the shade is not new.

To one of the brackets D, in which the shade-roller B is hung, there is attached by

a pivot, *a*, a pawl, E, said pivot passing through one end of the pawl, so that its opposite end will have a tendency to drop by its own gravity on a hub, F, attached concentrically to a plate, G, which is secured to one end of the roller B. (See Figs. 2 and 3.) The pawl E is provided with a projection, *b*, which, when the pawl drops, engages with either of two notches, *c c*, in the hub F and holds the roller B, preventing the shade from being wound upon it. The projection *b* is made rather oblique or inclined at one side, *d*, so as to admit of being forced out of a notch, *c*, when the shade is pulled down. The other side, *d'*, of the projection *b* is made at right angles with the bottom of the pawl, so as to catch firmly against the front edges of the notches and prevent the spring C from forcing the projections *b* out therefrom and winding up the shade. By pulling down the shade, however, so that the projection *b* of the pawl will be forced out of the notch *c*, it is fitted in, and then allowing the spring C to turn the roller B briskly back, the projection *b* will slip over the notches, or the latter pass under the former without catching, and the shade may be wound up to the desired height by the spring. The projection *b* of pawl E catch into a notch as soon as the motion of the roller is checked.

I would remark that, if desired, the pawl E may be placed underneath or at one side of the hub F instead of over it, as represented, and a spring be made to bear against it, in order that its projection *b* may engage with the notches *c c*. I prefer, however, the former method.

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

A pawl, E, attached to the bracket or other fixture near a shade-roller to engage with a notched, hub, F, attached to one end of said roller, when said parts are used in connection or combination with a spiral spring, C, placed within the shade-roller, and all arranged to operate substantially as and for the purpose herein set forth.

STEWART HARTSHORN.

Witnesses:

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