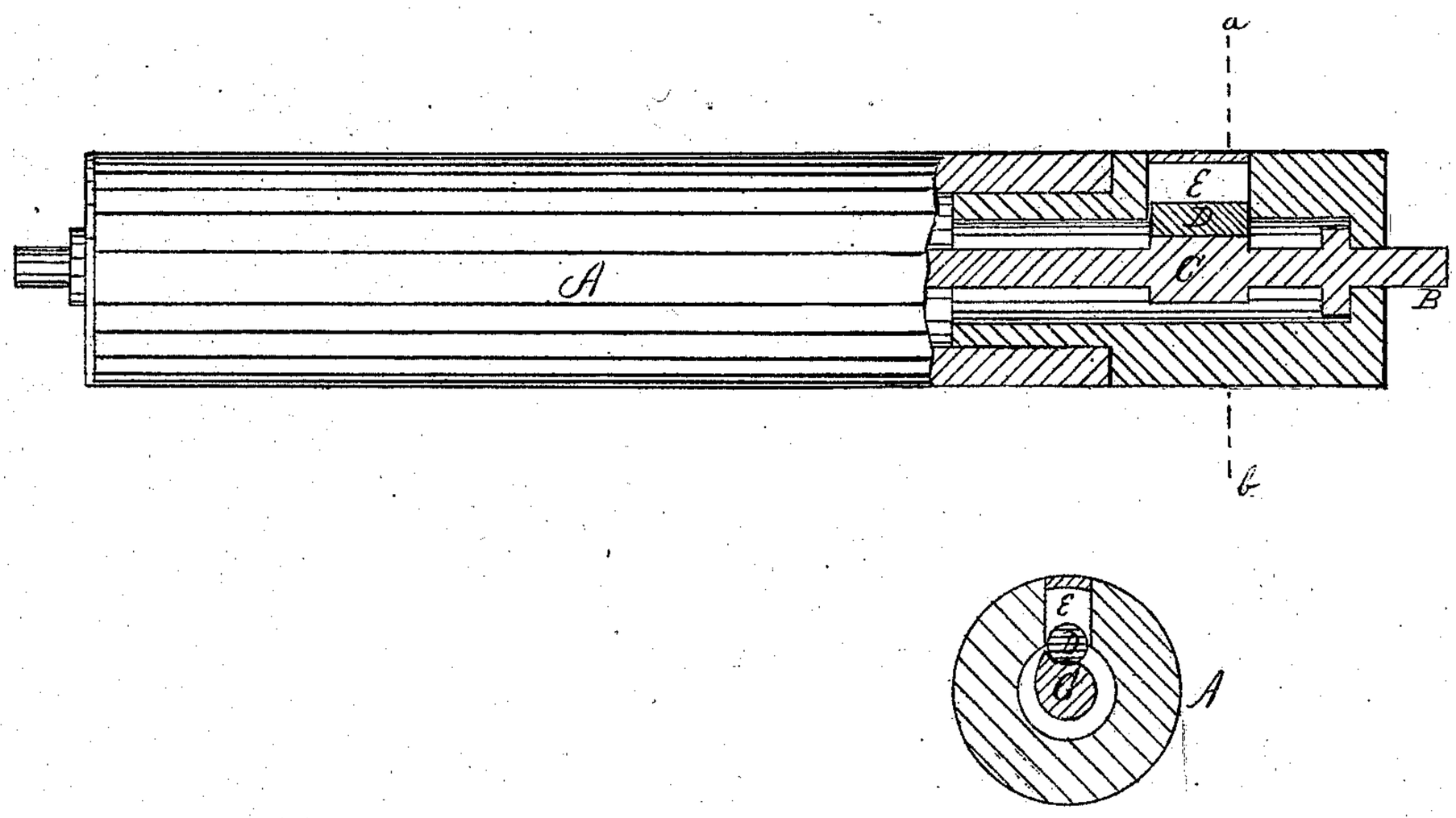
P. W. PHILLIPS.

Improvement in Curtain Fixtures.

No. 120,997. Patented Nov. 14, 1871.



Witnesses
C. C. Smith,
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UNITED STATES PATENT OFFICE.

PHINEAS W. PHILLIPS, OF SALEM, MASSACHUSETTS.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. 120,997, dated November 14, 1871

To all whom it may concern:

Be it known that I, PHINEAS W. PHILLIPS, of Salem, in the county of Essex and State of Massachusetts, have invented certain Improvement in Curtain-Fixtures, of which the following is a specification.

My invention relates to that class of curtain-fixtures in which a coiled or spiral spring is used to raise the shade; and consists in providing the shaft of the shade-roller with a cam by which a detent is operated to stop the shade at each revolution in its upward movement, if required, the coiled spring having sufficient power to raise the shade when it is lifted quickly, by which the detent is released from the cam, but engages with it when it is moved upward slowly, and stopping it at the desired point, the cam raising the detent and allowing it to roll over it when the shade is pulled down.

In the drawing, Figure 1 represents a longitudinal section of my improved shade-roller. Fig. 2 represents a cross-section on line *a b* of Fig. 1.

Similar letters of reference indicate like parts in both figures.

A represents the shade-roller, which is a hollow cylinder of wood or other suitable material. B is the shaft, upon which a coiled or spiral spring is moved, for the purpose of automatically raising the shade. The shaft B is provided with a cam, C. The detent D is contained in the chamber E on one side of the roller A. The detent D is represented as a short cylindrical piece of metal.

When the shade is pulled down the detent D rolls over the cam C, and the free rotation of the shade-roller is not interfered with. When the shade is raised slowly the detent drops into the space, and is held by the detent against the side of the chamber, stopping the roller. When the shade is raised quickly the centrifugal force keeps the detent out in the chamber and prevents it from engaging with the cam. The outer end of the shaft B is made to fit tightly into the bracket, so that it cannot revolve.

It is obvious that any required number of detents and chambers may be used, so that the rotation of the shade-roller may be stopped a greater number of times at each revolution of the roller.

I am aware of the Letters Patent granted to Jabez Burns, No. 94,866, dated September 14, 1869; and D. W. DeForrest, No. 101,440, dated April 5, 1870; in which devices are used having a similar object as my invention; these I do not claim.

I claim as my invention—

In a shade-roller, the detent D, for the purpose of stopping the upward movement of the shade, as shown and described.

PHINEAS W. PHILLIPS.

Witnesses:

JOHN A. BASSETT,

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