(No Model.)

W. H. LAYNG.

HANGING DEVICE FOR ELECTRIC LAMPS.

No. 421,864. Patented Feb. 18, 1890.

Fig. 1

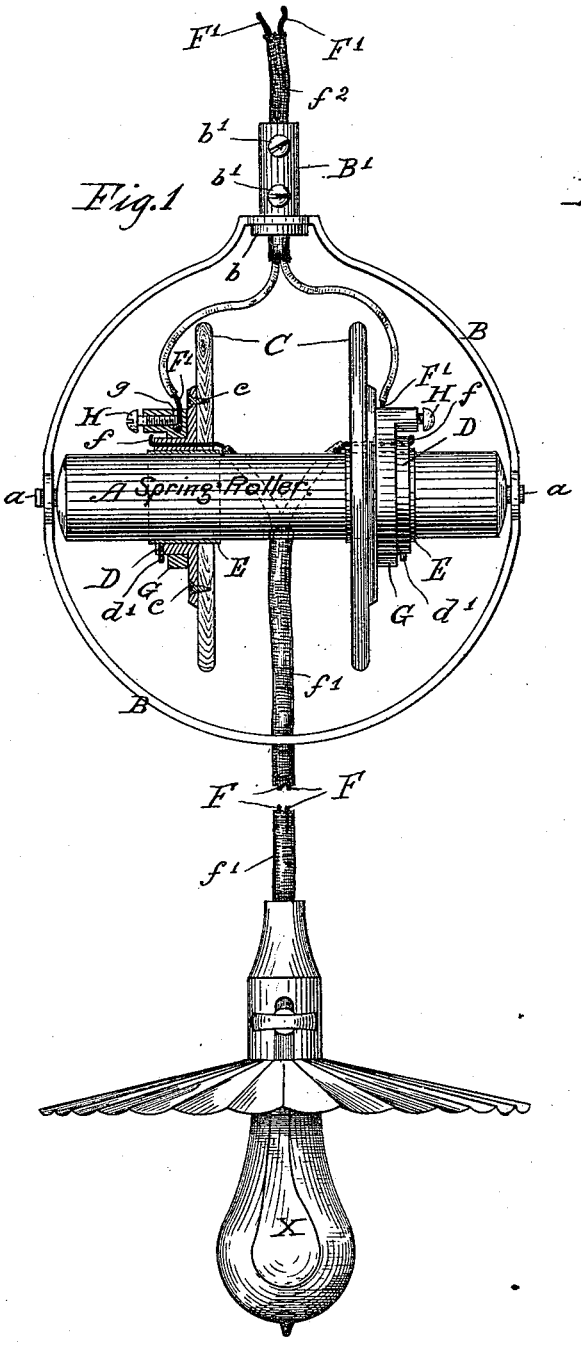
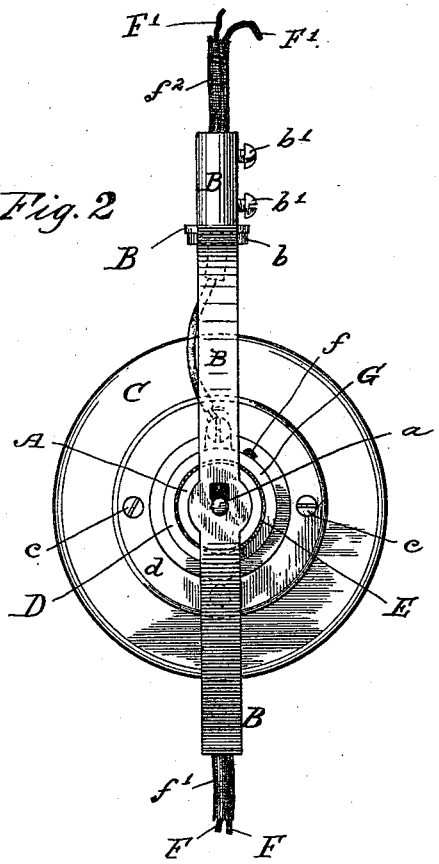


Fig. 2



Witnesses

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UNITED STATES PATENT OFFICE.

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HANGING DEVICE FOR ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 421,864, dated February 18, 1890.

Application filed October 25, 1888. Serial No. 289,126. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. LAYNG, a citizen of the United States, and a resident of the city, county, and State of New York, (formerly of Concord, New Hampshire,) have invented certain new and useful Improvements in Suspension Devices for Electric Lamps; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming part of this specification.

The object of my invention is the provision of means for adjustably supporting an electric lamp, so that the lamp may be readily moved from one position to another without breaking the electric circuit.

My invention consists in the novel details of construction and arrangement and combination of parts hereinafter described, and specifically pointed out in the claims.

In the accompanying drawings, Figure 1 is a front sectional elevation showing my invention as used in connection with an incandescent electric lamp, and Fig. 2 is a side elevation thereof.

Similar letters of reference are used to designate corresponding parts in both views.

The roller or drum A is supported by the shaft or axle *a*, which is held in suitable slots in the frame or support B, which prevents the axle from turning. A spring is located within the roller A after the manner adopted in the well-known forms of spring-curtain fixtures. The roller A is provided with flanges C C, preferably of non-conducting material, which act as guides and confine the lamp-wires as they are wound upon the roller. Upon the roller A are also rigidly mounted the collars or rings D D, of conducting material, which are insulated from the roller by the non-conducting material E. To the collars D D, in electrical contact therewith, are secured the terminals *f f* of the conducting-wires F F, which support the lamp X. The terminals F′ F′ of the supply-circuit, leading from a dynamo or other source of electricity, pass through a suitable guide B′ and are electrically connected with the contact-pieces G G, which are in electrical contact with the collars D D. The terminals F′ F′ are appropriately clamped to the frame B by the clamping-screws *b′ b′*, and are attached to the contact-pieces G G by the binding-screws H H. The conducting-wires F F and F′ F′ are properly insulated from each other in the usual way.

The advantages as well as the operation of my invention are obvious. If it be desired to raise the lamp from the position shown in Fig. 1 by lifting it up, the spring within roller A causes the latter to revolve and wind up the slack-conducting cord or wires F F. By simply pulling on the lamp the wires F F are unwound from the drum and the lamp is lowered to any position desired, the weight of the suspended parts acting as a counterbalance to the spring within the roller. At all times, whether the lamp is stationary or is being raised or lowered, the electrical circuit is maintained through the conducting-wires, collars, and contact-pieces. It will thus be seen that my invention affords a very simple, cheap, and effective means of adjustably supporting an electric lamp at any desired height, and that the lamp may be moved into any position without interfering in the least with its operation.

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

1. The combination, with a spring-actuated roller, a supporting-frame, and wires connecting an electric lamp with a dynamo, of collars rigidly fastened to the said roller, to which the wires from said lamp are attached, and collars loosely mounted upon the rigid collars and to which are attached the wires from the dynamo, all substantially as and for the purpose set forth.

2. In an electric-lamp attachment, a spring-actuated roller and tight and loose collars mounted thereon, the former within the latter, whereby the circuit is maintained between the wires connecting with a dynamo and those connecting with a lamp.

3. In a suspension device for an electric lamp, the combination of a supporting-frame, a roller, a spring within said roller, collars or rings of conducting material secured to and encircling said roller and adapted to be connected with the terminals of the lamp-wires, and contact-pieces bearing upon said collars or rings and adapted to be connected with the terminals of the supply-circuit, substantially as and for the purposes shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. LAYNG.

Witnesses:
J. B. THURSTON,
J. H. ALBIN.