No. 698,278. Patented Apr. 22, 1902.

H. J. HARRISON.

LAMP HANGER.

Application filed May 13, 1901.

(No Model.)

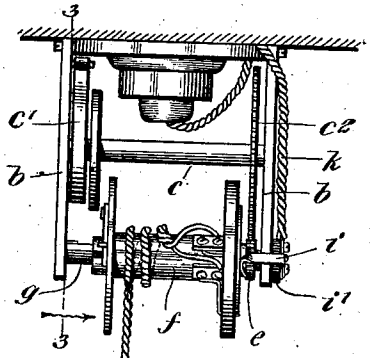


Fig. 1.

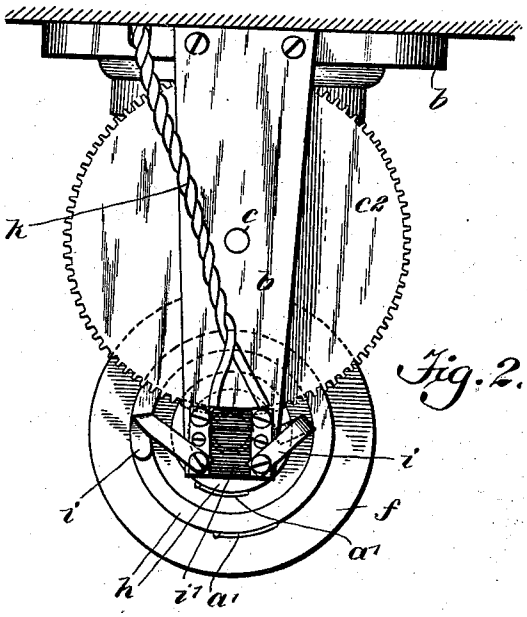
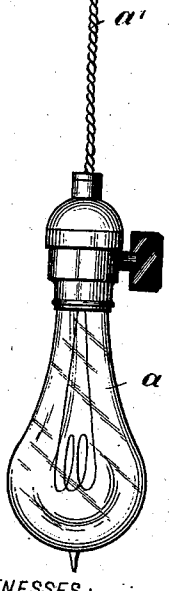


Fig. 2.



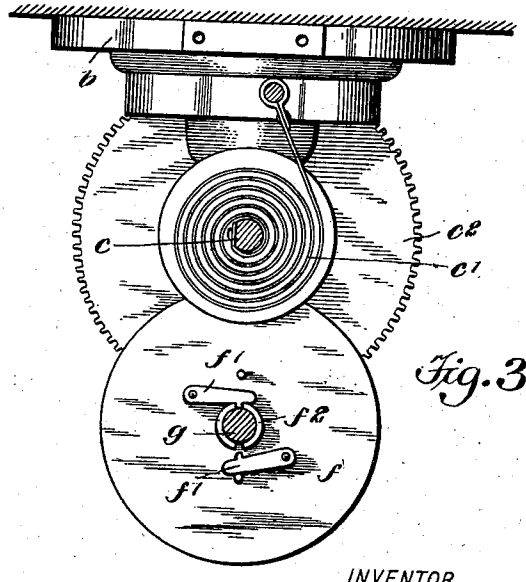


Fig. 3.

WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY JOHN HARRISON, OF JUNEAU, ALASKA TERRITORY.

LAMP-HANGER.

SPECIFICATION forming part of Letters Patent No. 698,278, dated April 22, 1902.

Application filed May 13, 1901. Serial No. 59,959. (No model.)

To all whom it may concern:

Be it known that I, HENRY JOHN HARRISON, a citizen of the United States, and a resident of Juneau, Territory of Alaska, have invented a new and Improved Lamp-Hanger, of which the following is a full, clear, and exact description.

This invention relates to a device for hanging electric lamps so that the lamps may be raised or lowered to any height desired. This end I attain by a certain arrangement of parts involving a roller or drum carrying a conductor and actuated in one direction by a spring, so as normally to wind the conductor on the drum, the drum being actuated manually in the contrary direction and being arranged with a dog which will hold it in any position desired.

This specification is a specific description of one form of the invention, while the claims are definitions of the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a front elevation of the invention. Fig. 2 is an enlarged side elevation thereof, and Fig. 3 is a section on the line 3 3 of Fig. 1.

The device is preferably inclosed in a protective case or cover, (not shown,) through an opening in which the flexible conductor a' of the lamp a passes loosely, so that the lamp may be raised or lowered at will. b indicates a suitable framing which carries the working parts of the device. In this framing is mounted a shaft c, engaged with a spring c' and having fast thereto a spur-gear c^2. This gear c^2 is in mesh with a pinion e, fast on a drum f. As best shown in Fig. 2, the drum f is provided with two dogs f', and these are arranged to engage with a notched collar f^2 on the shaft g. The conductor a' is wound on the drum f and has its terminals, respectively, in electrical connection with annular conductor-bands h on the drum f at the right-hand end thereof. (See Fig. 2.) In sliding contact with these bands h are contact-fingers i, which are mounted on but insulated from the frame b through the medium of an insulating-block i'. These contact-fingers i are connected by a conductor k with any suitable source of electrical energy.

Now it will be seen that no matter to what position the drum f be turned the fingers i will be continually in contact with the bands h, and the current will therefore be transmitted to the lamp a through the conductor a'. Upon drawing down on the lamp the conductor a' is unwound from the drum f, and the rotation of the drum causes the roller c to be rotated contrary to the rotation of the spring c'. If one of the dogs f' be then allowed to engage with the notched collar f^2 of the shaft g, the drum will be held and the lamp will be kept at the lowered position. By starting the revolution of the drum and causing the dogs f' to be thrown outwardly by centrifugal force the spring c' may be permitted to return the drum to its normal position, winding up the conductor a' thereon. From this it follows that the lamp may be raised or lowered, as desired, and that the different adjustments of the lamp may be obtained simply by drawing upon or slackening up the conductor a', very much in the same manner as the ordinary spring curtain-roller is operated.

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

A lamp-hanger, comprising a frame having two depending parts, a shaft mounted to turn in said parts, the shaft extending between them, a spring actuating the shaft, a drum mounted to turn in the depending parts of the frame below the shaft, gearing connecting the drum with the shaft, two annular contact-bands fastened to one end of the drum concentric with the axis thereof, contact-fingers fastened to the adjacent depending part of the frame and bearing respectively on said annular contact-bands, electrical conductors leading to the contact-fingers, electrical conductors wound on the drum and having connection respectively with the contact-bands, and means working with the drum to control its movement.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY JOHN HARRISON.

Witnesses:
W. C. IRISH,
H. B. AMES.