March 30, 1926. 1,578,358

E. C. PÉNIN

ELECTRIC LAMP FOR CINEMATOGRAPHIC APPARATUS

Filed Feb. 23, 1924

Fig.1

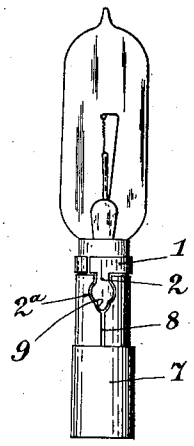


Fig.2

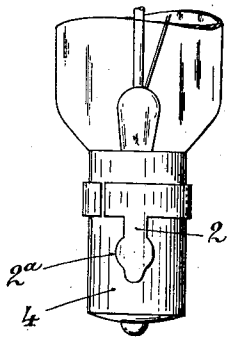


Fig.3

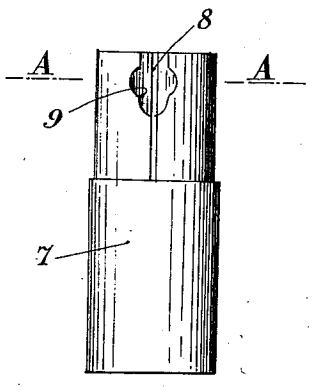
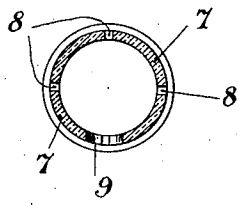


Fig.4



Emile Christian Pénin
INVENTOR;
By Munn & Co
Attorney.

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UNITED STATES PATENT OFFICE.

EMILE CHRISTIAN PÉNIN, OF JOINVILLE-LE-PONT, FRANCE, ASSIGNOR TO PATHE CINEMA, ANCIENS ETABLISSEMENTS PATHE FRERES, OF PARIS, FRANCE.

ELECTRIC LAMP FOR CINEMATOGRAPHIC APPARATUS.

Application filed February 23, 1924. Serial No. 694,532.

To all whom it may concern:

Be it known that I, EMILE CHRISTIAN PÉNIN, a citizen of the French Republic, residing at Joinville-le-Pont, Seine, in the French Republic, have invented new and useful Improvements in Electric Lamps for Cinematographic Apparatus, of which the following is a specification.

This invention relates to improvements or modifications in the device object of my copending patent application filed under No. 580,507.

Said modifications consist in disposing on the tenon of the split ring an enlarged part or boss which is fitted into a corresponding opening formed in the socket, which latter also has various longitudinal slots.

It has been in fact noticed that in the device set forth in my patent application filed under No. 580,507, jarring motion will cause the lamp to slide in its socket and hence the filament will get out of adjustment with reference to the optical axis of the cinematographic apparatus. The improved device according to the invention obviates this drawback by adding, to the guiding tongue of the ring, the boss forming the stop-piece in conjunction with the socket.

In the appended drawing which shows by way of example a form of construction of the device according to the invention.

Fig. 1 shows in elevation the lamp mounted in its socket.

Fig. 2 is an elevational view on a larger scale of the lamp socket with its ring and the tenon mounted on the latter.

Fig. 3 is an elevational view of the socket in which the lamp is mounted.

Fig. 4 is a horizontal section on the line A—A of Fig. 3.

As set forth in my patent application filed under No. 580,507, one places, after adjustment, on the base 4 of the lamp a split ring 1 provided with the tenon 2, but according to the invention, the tenon 2 has an enlarged part 2^a.

The socket 7 for receiving the lamp base 4 is split lengthwise at 8 for part of its height so as to form several tongues. One of the slots 8 has an opening 9 for receiving the enlarged part 2^a of the guiding tenon 2.

It may be understood that when placing the base 4 provided with its ring soldered previously thereto, in the socket 7, the enlarged part 2^a of the tenon 2 will separate the two corresponding tongues of the socket 7 and will fit into the opening 9. When the enlarged part has been engaged in the said opening 9, the two tongues of the socket 7 will resume their normal position. The tenon 2 is now perfectly maintained, and the jarring movements can no longer cause the base 4 to slide, since the stop portion formed by the enlarged part or boss 2^a acts in a sufficiently strong manner to prevent the same.

Having now described my invention what I claim as new and desire to secure by Letters Patent is:

A lighting device for projection apparatus comprising an ordinary glow lamp, a ring secured to the cap of said lamp, a lug secured on said ring and extending longitudinally on said cap towards the lower part of said cap, an enlarged part or boss provided on said lug and a lamp-socket on the upper edge of which is adapted to rest the lower edge of said ring, said lamp-socket having longitudinal slots so as to form tongues and an opening in one of said slots in which is adapted to fit said enlarged part of said lug for ensuring automatically the exact position in height and the exact angular position of the lamp filament.

In testimony whereof I have signed my name to this specification.

EMILE CHRISTIAN PÉNIN.