No. 613,248. Patented Nov. 1, 1898.

G. W. COOK, JR.

INCANDESCENT ELECTRIC LAMP HOLDER.

(Application filed Nov. 5, 1897.)

(No Model.) 2 Sheets—Sheet 1.

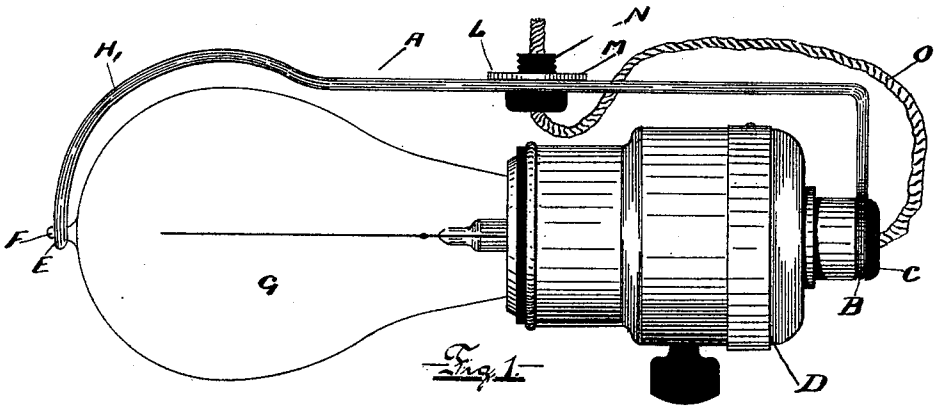
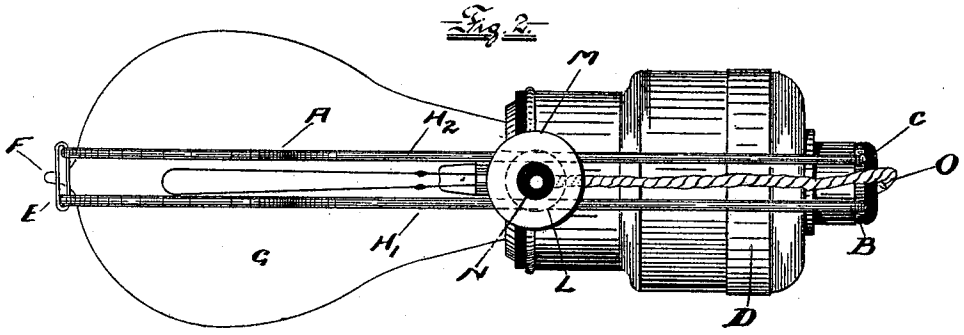


Fig. 1.

Fig. 2.



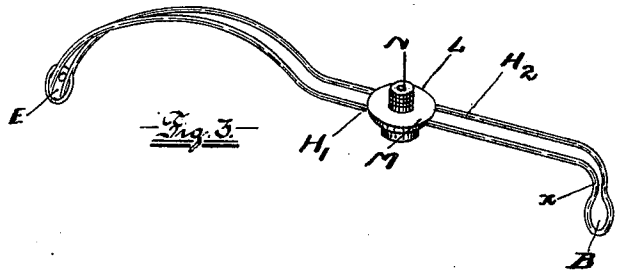


Fig. 3.

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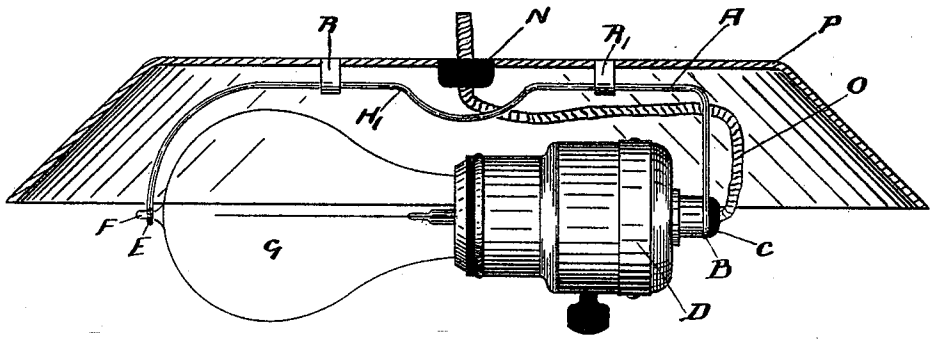
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(No Model.) 2 Sheets—Sheet 2.

Fig. 4.



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UNITED STATES PATENT OFFICE.

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INCANDESCENT-ELECTRIC-LAMP HOLDER.

SPECIFICATION forming part of Letters Patent No. 613,248, dated November 1, 1898.

Application filed November 5, 1897. Serial No. 657,461. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. COOK, Jr., a citizen of the United States, residing at Bloomfield, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Incandescent-Electric-Lamp Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to furnish an apparatus for securing an adjustable horizontally-suspended position for incandescent electric lamps. This object I have gained by constructing the herein-described suspension-frame, the main principle of which is the creation of an equilibrium by the horizontal movement made possible by my construction of, respectively, the lamp-shade and my improved frame attached to the lamp.

In describing my invention I shall call attention to the accompanying drawings, wherein like letters of reference indicate corresponding parts in the different views.

Figure 1 shows a side view of an electric lamp having my improved frame attached; Fig. 2, a top view of Fig. 1; Fig. 3, a perspective view of my improved frame detached from the lamp; and Fig. 4, a different mode of attaching the frame and the shade to each other, involving no departure, however, from my inventive principle.

In Fig. 1, A indicates my improved frame, made of a simple piece of wire formed by two parallel-running strands H′ and H^2, having at one end a loop B, secured around an insulating-bush C, which bush is screwed into the end of the socket D. At the other end a second loop or catch E is formed, which lies around the glass-smelting apex F of the bulb G. Sliding between these two parallel-running wire strands H′ and H^2, which form the frame A, is an equilibrium-guide L, composed of a disk M and a screw-cut insulating-bush N, between whose head N′ and the said disk M the two strands H′ and H^2 slide. Passing through the insulating-bushes N and C is the lamp-cord O, connected and acting in the customary manner upon the lamp. If the lamp-shade (not shown in Figs. 1 and 2) is then attached to the upper screw-cut part of bush N, it will be obvious that a horizontal equilibrium for the lamp, as suspended by the lamp-cord, will have been gained by means of the improved frame A, coöperating for such purpose with the thereto-attached lamp-shade and the above-described intermediate elements.

In Fig. 4 I have illustrated a modification in the attachment of the suspension-frame A to the lamp-shade P. The frame A is, as described in connection with Figs. 1 and 2, similarly attached by its two loops or eyes B and E to the bulb G and the socket D, and the insulating-bush N, having the cord O passing through it, is, as before, secured to the lamp-shade P. Furthermore, there are secured to the said shade P four eyelets, of which the two R and R′, lying around the strand H′, can only be seen. This what might be called "indirect" mode of attachment between the shade P and my improved frame A will permit the use of any shape of shade that may be desired. The manner in which the horizontal equilibrium is gained in this case is exactly the same as in the former case by the relative adjustment laterally of the lamp and the shade through the medium of the frame, with this exception, that in the instance of Figs. 1 and 2 the equilibrium was gained by sliding the bush attached to the shade back and forth in the frame A, whereas in the instance of the construction shown in Fig. 4 the frame A is slid back and forth in the eyelets R and R′, secured to the shade P, and the insulating-bush is, as before, screwed into the shade, having the lamp-cord passing through it, but otherwise detached from frame A.

Various small details of construction may of course be altered from time to time. It might, for instance, be found practical to have the strand H′ cut through at the point marked "X" as one method of slipping the lamp-cord in without disconnecting it when attaching the frame; but

What I especially claim, and desire to secure Letters Patent for, is—

1. In a suspended incandescent electric lamp, the combination with the lamp-cord of the lamp-shade having an insulating-bush secured to it, through which said cord passes; a wire frame, attached to the lamp bulb and socket, coöperating with sliding means secured to the lamp-shade, for the purposes as set forth.

2. In a suspended incandescent electric lamp, a frame, constructed of suitable material, forming two parallel-running strands and terminating at each end in two eyes, one eye secured around the apex of the bulb, the other lying around the insulating-bush of the lamp-socket, an insulating-bush secured to the lamp-shade, having the lamp-cord passing through it, means secured to the lamp-shade wherein the said frame is adjustable, as illustrated and described, for the purposes specified.

3. The combination in an incandescent electric lamp of the lamp-cord the shade and the lamp-bulb frame, two parallel-running strands forming said frame terminating at each end in an eye, one eye secured around the apex of the bulb, the other lying around the insulating-bush of the lamp-socket as illustrated and described for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 23d day of October, 1897.

GEORGE W. COOK, JR.

Witnesses:
AUGUST M. TRESCHOW,
AXEL V. BEEKEN.