

(No Model.)

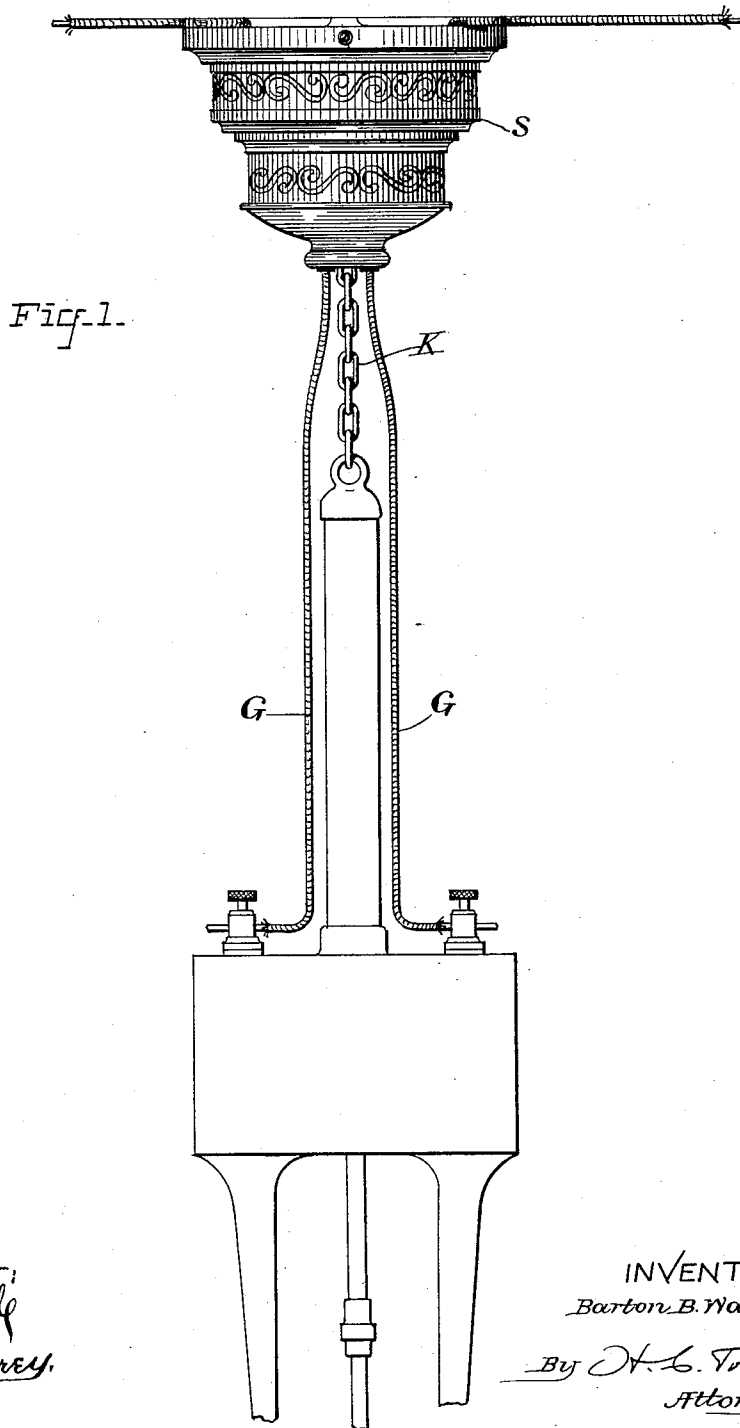
2 Sheets—Sheet 1.

B. B. WARD.

HANGER BOARD FOR ELECTRIC ARC LAMPS.

No. 484,480.

Patented Oct. 18, 1892.



ATTEST:
J. H. Mundy
J. F. Convey

INVENTOR:
Barton B. Ward

By *J. L. Townsend*
Attorney

(No Model.)

2 Sheets—Sheet 2.

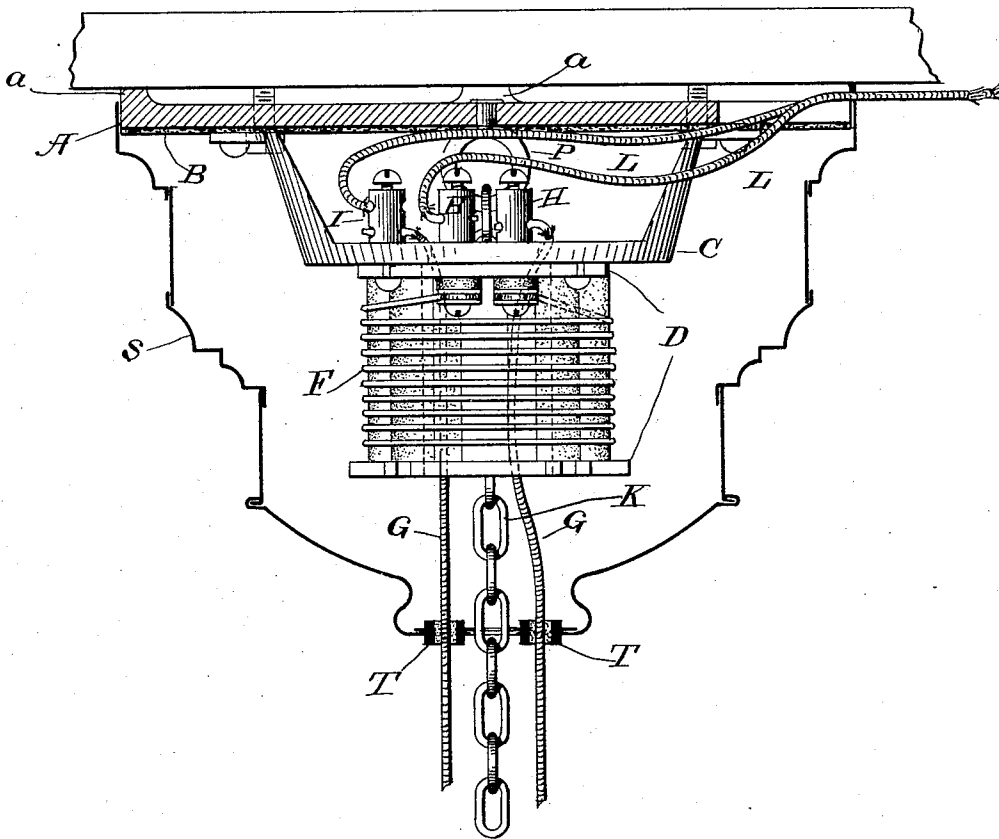
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Fig. 2.



ATTEST:

J. M. Mudd
C. F. Conroy

INVENTOR:

Barton B Ward

By H. L. Townsend
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UNITED STATES PATENT OFFICE.

BARTON B. WARD, OF NEW YORK, N. Y.

HANGER-BOARD FOR ELECTRIC-ARC LAMPS.

SPECIFICATION forming part of Letters Patent No. 484,480, dated October 18, 1892.

Application filed April 30, 1892. Serial No. 431,330. (No model.)

To all whom it may concern:

Be it known that I, BARTON B. WARD, a subject of the Queen of Great Britain, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Arc-Lamp Hanger-Boards, of which the following is a specification.

My invention relates to hanger-boards for electric lamps, and is designed more particularly for those cases where it is desired to use with the lamp an artificial resistance, either normally in circuit with the lamp or thrown into the circuit, upon which the lamp burns by any suitable means, automatically or otherwise.

The principal object of my invention is to combine the resistance and the hanger-board and at the same time produce a device that shall be simple, ornamental, and safe from danger of fire, while producing, also, a convenient means of attaching and detaching the lamp from its support at pleasure without removing the resistance.

The invention consists in the features of construction and combinations of parts herein-after described, and then specified in the claims.

I have herein, for the sake of illustration, shown my invention as embodied in a hanger-board adapted for supporting an arc lamp, and including the resistance in the normal circuit with the lamp after the manner usually adopted in burning arc lamps on constant-potential circuits.

In the accompanying drawings, Figure 1 is a side elevation of an apparatus embodying my invention. Fig. 2 shows in detail the parts within the canopy or rosette.

A indicates the base-plate of the apparatus, from which the resistance and the lamp are to be supported. The plate A, I make, preferably, of some cheap metal—such as iron—in order that it may serve to readily conduct away and dissipate any heat caused by the electric current in the resistance or connections supported from the plate, and may also serve as a thorough protection against the communication of fire to the ceiling or other support to the surface of which it is attached. The plate A is preferably provided with a rim or a number of feet *a*, which serve to hold its

flat portion out of direct contact with the ceiling or other support. The plate is fastened to its support by screws or otherwise, as usual in the art. Upon its lower surface it may be and preferably is provided with a sheet of some insulating and preferably fire-proof substance, such as asbestos. (Indicated at B.) Dependent from the plate A is an open stand or frame C, which may be of iron or other suitable material, and is fastened to the plate A by screws or otherwise. The stand or frame C serves to support the artificial resistance-frame away from the ceiling or surface upon which the finger-board plate A is secured, thus removing the resistance from dangerous proximity to the ceiling, while at the same time, owing to the fact that it is open or supported by separate plates or feet, allowing for free circulation of air and dissipation of the heat.

D indicates the resistance-supporting frame, on which is coiled over suitable insulating supports or posts one or more layers of resistance-wire F. The center of the resistance-frame D is open or hollow, as indicated, to provide a passage for the devices which support the lamp, and preferably, also, for the wires G G, which connect to the terminals or poles of the lamp, as shown in Fig. 1. The terminals of the resistance-wire connect to posts H H, supported upon the resistance-frame in any suitable way and provided with means for clamping a wire G and one of the line-wires L. The other line-wire L connects to a post I, supported on the stand C or on the resistance-carrying frame, as desired, and provided with means for clamping the other wire G.

Any proper means may be used for supporting the lamp from the hanger-board A, such supporting device extending down through the hollow lamp-frame. In the present instance I have shown a chain K, which is attached to a hook or eye P, secured to the center of the plate A. The lamp may be detachably secured to the lower end of said chain by means of a hook which connects with the upper end of the lamp-horn or by other means, as desired.

In place of a chain any other means might be used for detachably supporting the lamp from the hanger-board.

S indicates a perforated canopy or rosette, which is fastened to the plate A and extends down over the resistance-supporting frame C and the artificial resistance, as shown, and is closed in at its lower end, excepting where an opening is provided for the lamp-support K and for the passage of the wires G. The latter pass through insulating-bushings T, as shown.

10 The canopy or rosette S is made ornamental and preferably is constructed with open-work over the whole or a part, so as to permit the free circulation of air, thus helping in the dissipation of heat.

15 What I claim as my invention is—

1. The improved hanger-board herein described, composed of a plate carrying means for supporting the lamp and combined with a resistance-supporting frame or stand, from the lower end of which a resistance-frame having a passage through its center is supported, as and for the purpose described.

2. In a hanger-board for electric-arc lamps, a metal plate having a hollow resistance-frame supported beneath it and supporting devices for the lamp, extending down from the plate through the hollow resistance-frame.

3. The combination, with a hanger-board

having a base-plate A fastened to the ceiling or other support, of a resistance-supporting frame C, fastened to the lower surface of said plate, a frame carrying a resistance and secured to the stand, and an inclosing ornamental canopy or rosette made with open-work, as and for the purpose described.

4. In a hanger-board, a base-plate of iron provided with one or more feet *a* for holding it off the surface of the ceiling, in combination with a resistance-supporting stand C, secured to its lower surface and having a hollow resistance-frame secured to its lower end.

5. In a hanger-board for electric-arc lamps, the combination, substantially as described, of a base-plate A, a resistance supported on a stand away from the lower surface of the plate A, a surrounding perforated canopy, and a lamp-supporting chain or other support K, extending down through the resistance.

Signed at New York, in the county of New York and State of New York, this 18th day of April, A. D. 1892.

BARTON B. WARD.

Witnesses:

WM. H. CAPEL,
T. F. CONREY.