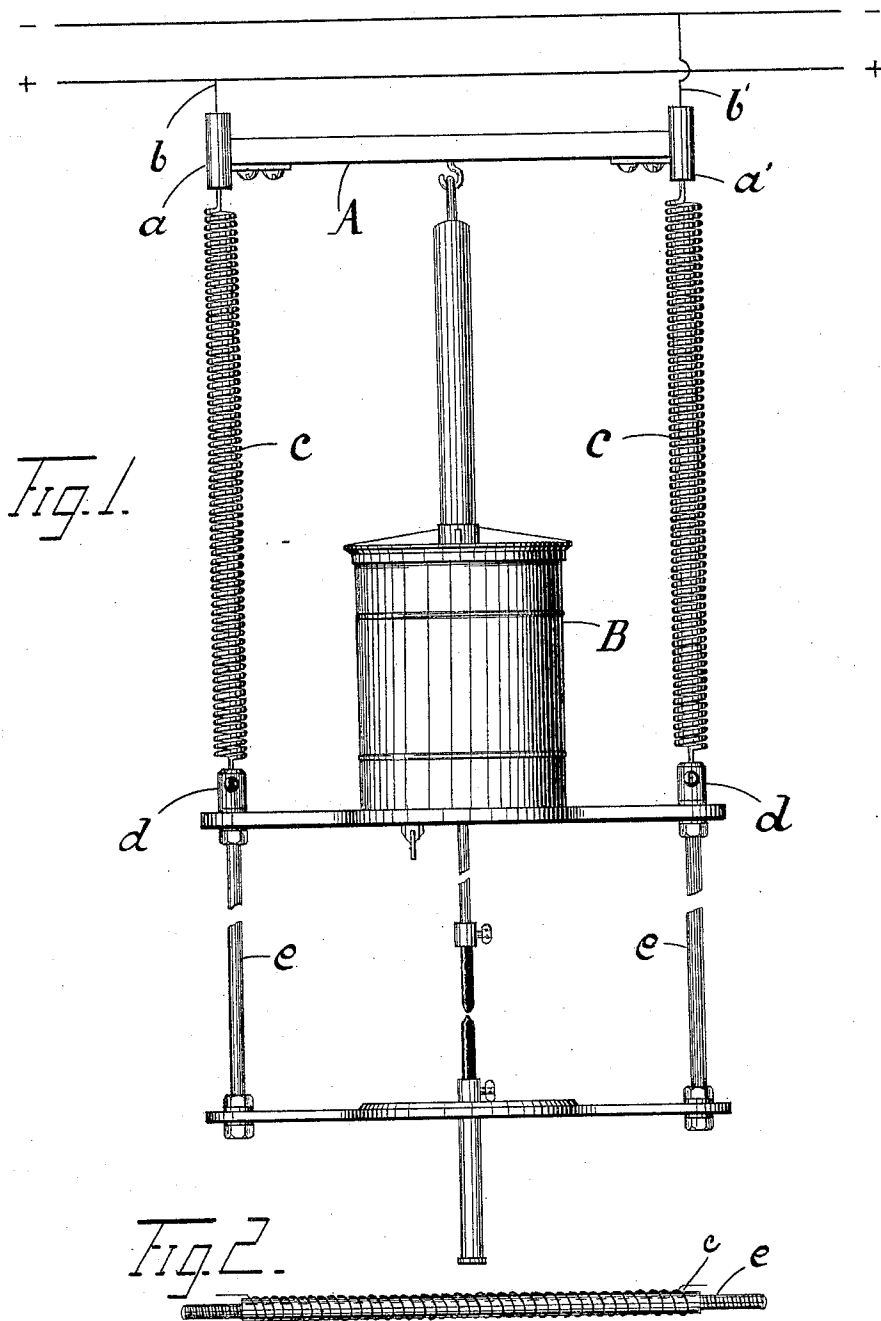


(No Model.)

R. SEGERDAHL.
ELECTRIC ARC LAMP.

No. 528,184.

Patented Oct. 30, 1894.



Witnesses.

Wm. E. Nelson.
John Skillestad

Inventor.

Rudolph Segerdahl.

UNITED STATES PATENT OFFICE.

RUDOLPH SEGERDAHL, OF CHICAGO, ILLINOIS.

ELECTRIC-ARC LAMP.

SPECIFICATION forming part of Letters Patent No. 528,184, dated October 30, 1894.

Application filed February 26, 1894. Serial No. 501,489. (No model.)

To all whom it may concern:

Be it known that I, RUDOLPH SEGERDAHL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Electric-Lamp Rheostats, of which the following is a specification.

My invention relates to that class of rheostats used in connection with arc lamps, and more particularly to a method of securing said rheostat (or resistance) to the lamp structure. Ordinarily this resistance is arranged in a box separate from the lamp and placed in any suitable place in the main circuit. In other instances, the required amount of resistance is arranged inside a casing secured to the lamp structure.

The objection against the first mentioned method is the general one made against inclosed resistances by fire-underwriters; and to the other method, the objectionable appearance of a large casing attached to the lamp structure.

The objects of my improvement are, first, to provide means whereby the resistance may be attached to the lamp structure without disfiguring the general appearance of the lamp; second, to obviate accidents from fire, which are liable to occur when a resistance within an inclosure is used; third, to obtain a cheap and durable structure and which is readily attached to the lamp. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1, is a plane elevation of a lamp embodying my improvements, and Fig. 2, a modification showing the resistance secured to the side rods of the lamp-frame.

Similar letters refer to similar parts throughout both the views.

In Fig. 1, —A— is a hanging board or cross-piece in connection with the top of the lamp

—B— and adapted to sustain the weight of the same. To this cross bar are fastened binding posts —a—a'— which are insulated from one another and arranged to clamp the circuit wires —b—b'—. The resistance —c—c— is preferably made in the form of coils and connected to the binding-posts —a—a'— on the cross bar —A— and to the circuit terminals —d—d'— of the lamp —B—.

In Fig. 2, I have shown the resistance wound around the side rods —e— of the lamp. When availing myself of this method, I make the side rods as small as possible in diameter and provide the same with an insulating surface. After the resistance is placed around the same I prefer to coat the exterior surface with enamel or any other suitable non-conductor.

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

1. The combination with an electric lamp, of a cross piece —A— in connection with or secured to said lamp and adapted to sustain the weight of the same, clamps a—a'— arranged to receive the circuit terminals —b—b'—, and a resistance —c—c— consisting of two parts, connected respectively to said circuit terminals and lamp terminals and forming a part of the circuit on each side of the lamp, substantially as and for the purpose described.

2. The combination with an electric arc lamp provided with means adapted to sustain the weight of the same, of a resistance —c—c— consisting of two parts, interposed between the circuit terminals and lamp terminals respectively and secured to or located on each side of the frame structure of said lamp.

RUDOLPH SEGERDAHL.

Witnesses:

JOHN SHILLESTAD,
CASSIUS M. C. CROSS.