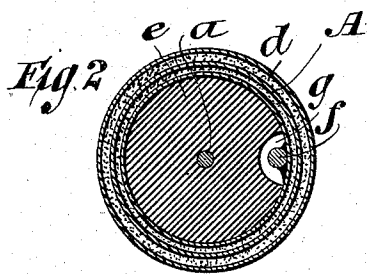
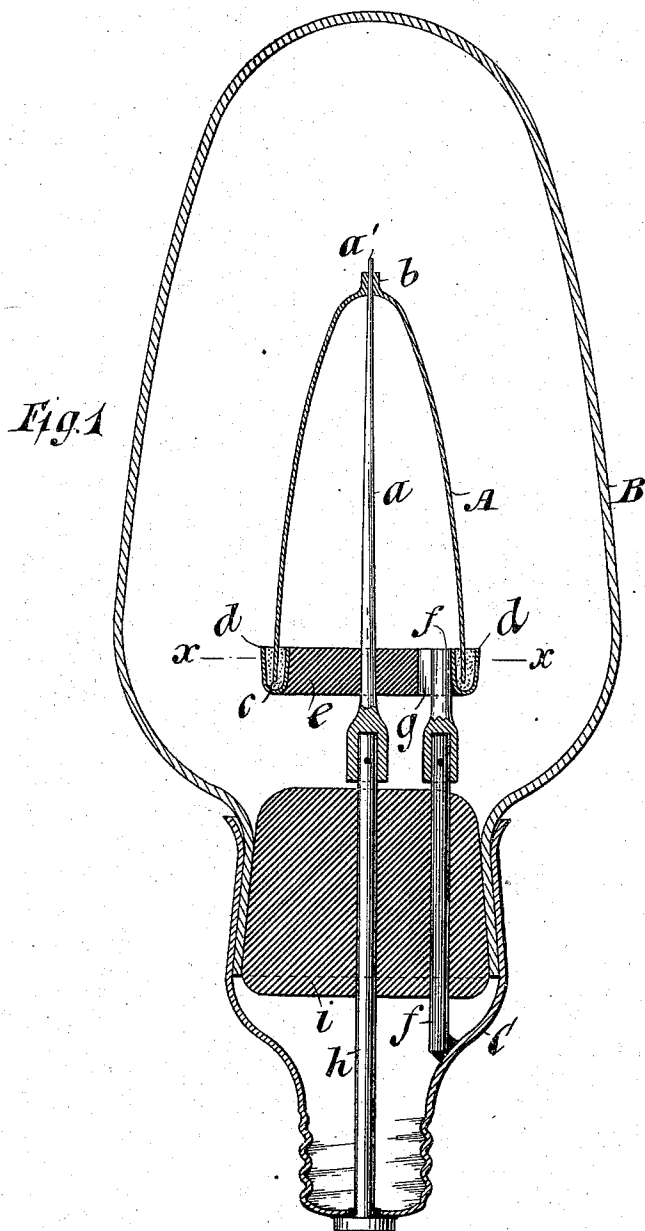


(No Model.)

K. O. E. TROBACH.  
INCANDESCENT LAMP.

No. 558,122.

Patented Apr. 14, 1896.



*Witnesses*  
*Geo. Wadman*  
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*By his attorney*  
*Edwin H. Brown*

# UNITED STATES PATENT OFFICE.

KONRAD OTTO EDUARD TROBACH, OF PANKOW, GERMANY, ASSIGNOR OF  
ONE-HALF TO SIGMUND BERGMANN, OF NEW YORK, N. Y.

## INCANDESCENT LAMP.

SPECIFICATION forming part of Letters Patent No. 558,122, dated April 14, 1896.

Application filed April 18, 1894. Serial No. 507,966. (No model.)

*To all whom it may concern:*

Be it known that I, KONRAD OTTO EDUARD TROBACH, of Pankow, near Berlin, in the Empire of Germany, have invented a certain new and useful Improvement in Incandescent Lamps, of which the following is a specification.

My invention relates to incandescent electric lamps in which incandescing bodies are employed having radiating-surfaces of large area, as distinguished from incandescing bodies of a filament-like nature. It is particularly directed toward the production of an incandescent lamp having an incandescent body with a radiating surface or surfaces of large area and of a flexible and sponge-like nature. For the production of bodies of this nature I employ material of a meshy texture or tissue—as, for instance, fabrics or textures of a woven or reticulated construction—which after carbonization yield incandescing bodies possessing the peculiar properties, flexibility, and an open or sponge-like nature of the original body. As a direct result of these properties, the incandescing body will at no time during the passage of the electric current be subject to strains through expansion.

I will describe an incandescent lamp in which the features of my improvement are embodied, and then point out the novel features in a claim.

In the accompanying drawings, Figure 1 is a sectional elevation of an incandescent lamp embodying my improvement. Fig. 2 is a cross-section on the line *xx* of Fig. 1.

Similar letters of reference designate corresponding parts in both the figures.

A designates an incandescing body, here shown as bell-like in form and of an open or sponge-like nature, as described above. It is kept in shape and supported from its apex by an upright rod or stanchion *a*. For this purpose the apex portion of the body A may be provided with a collar *b*, through a central opening in which passes the tapered extremity of the stanchion *a* and on which it seats itself.

A ring or disk *e* of non-conducting material is provided at its circumference with an annular U-shaped piece *d*, forming a trough into which the lower edge of the body A extends. The trough *d* is of metal or other conducting material and is in electrical communication with the lower edge of the incandescing body A. The trough may with advantage be filled with some adhesive material which is a conductor of electricity, and the lower edge of the body A may enter directly into this adhesive.

B is the glass globe or bulb of the lamp, and *i* is a stopper or plug of non-conducting material fitted by an air-tight joint to the bulb B. The stopper *i* is provided with two conductors *h* and *f*, respectively, forming the leading-in wires of the lamp. These conductors communicate at one end with the respective terminals of the lamp.

The inner end of the conductor *h* supports the stanchion *a*, which passes through the disk *e* of non-conducting material. The inner end of conductor *f* is in electrical communication with the trough *d*, and consequently the lower edge of the body A. The disk *e* is provided with a suitable aperture *g* to receive the upper portion of the conductor *f*.

The bulb is intended, as usual, to be exhausted, and carries at its lower portion the usual threaded piece to engage in a similarly-formed socket.

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

An electric lamp comprising a bell-shaped incandescing body of flexible and spongy carbon, and circuit-terminals connected therewith, substantially as specified.

In witness whereof I have hereunto set my hand in presence of two witnesses.

KONRAD OTTO EDUARD TROBACH.

Witnesses:

PH. SEUBEL,  
W. HAUPT.