

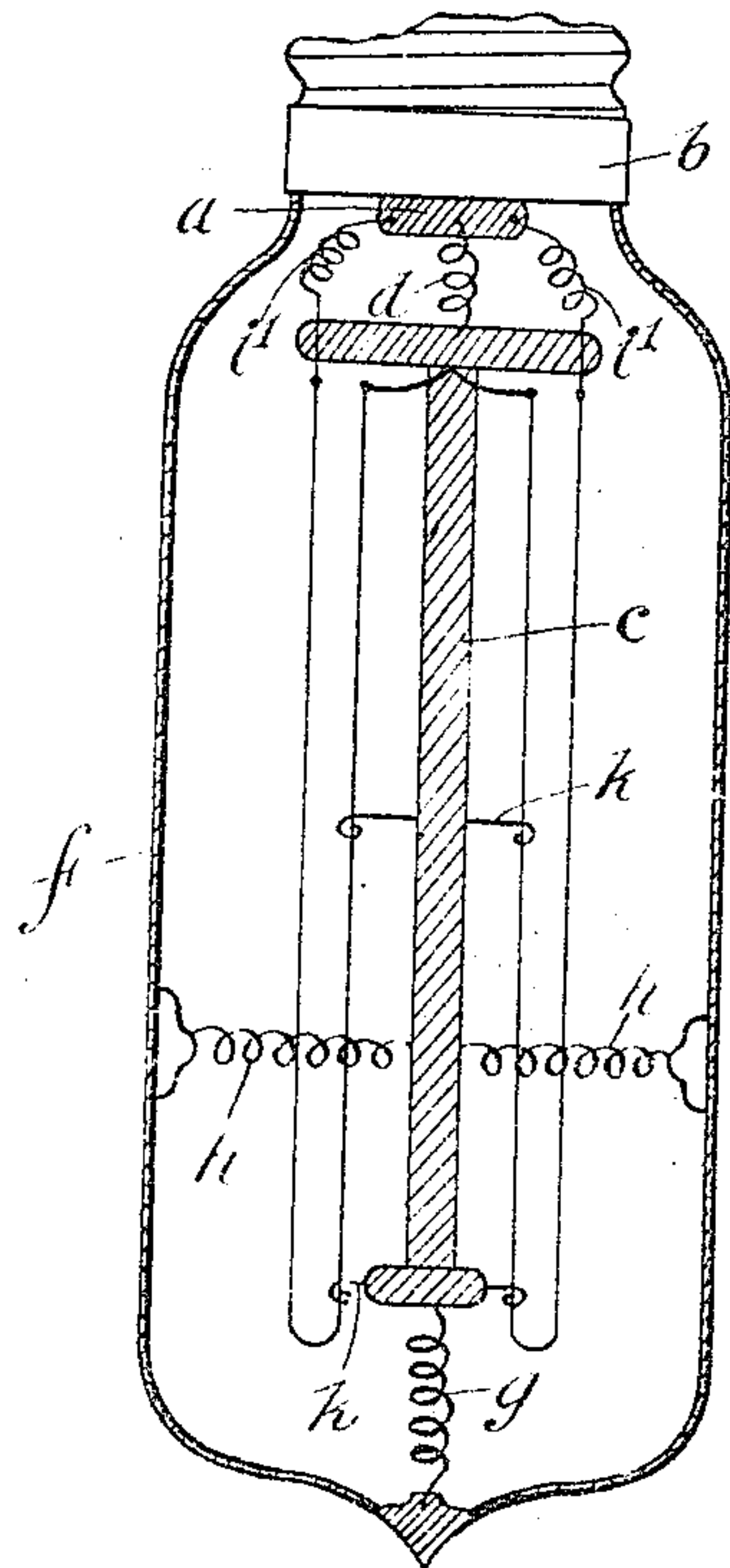
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P. DRUSEIDT.

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ELASTIC SUSPENSION FOR THE FILAMENTS OF ELECTRIC
INCANDESCENT LAMPS.

APPLICATION FILED APR. 16, 1908.



Witnesses

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ELASTIC SUSPENSION FOR THE FILAMENTS OF ELECTRIC INCANDESCENT LAMPS.

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Specification of Letters Patent.

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Application filed April 16, 1908. Serial No. 427,529.

To all whom it may concern:

Be it known that I, PAUL DRUSEIDT, a subject of the German Emperor, residing at Remscheid, in the Empire of Germany, have
5 invented new and useful Improvements in Elastic Suspensions for the Filaments of Electric Incandescent Lamps, of which the following is a specification.

This invention relates to improvements in
10 electric incandescent lamps and has particular reference to lamps of the metallic filaments type which are especially liable to become injured by vibrations or injudicious handling and the object of the invention is
15 to provide for the elastic suspension of the filaments to reduce the effect of shock or vibration on the lamp filament.

The accompanying drawing is an elevation partly in section of a metallic filament lamp
20 embodying my improvements.

In the drawing *a* designates a filament carrier connected with the socket *b* of the lamp. To the filament carrier is secured by a coil spring *d* a filament holder *c*. The stem of
25 the filament holder is secured at its opposite end to the bulb *f* by means of a coil spring *g*. If desired, I may provide lateral springs *h* at any desired position intermediate the ends of
30 said holder with the sides of the bulb *f* as illustrated.

The current is taken from the filament carrier *a* by coiled conducting wires *i*¹ and *i*² to the suspended filament holder *c* as illustrated.
35 In some cases the coiled conducting wires *i*¹ and *i*² will furnish the required elasticity for the suspended filament holder. The best results are, however, obtained by the use of springs *d*, *g* and *h* in addition
40 thereto. It is obvious that the number,

form and arrangement of the springs above referred to may be widely varied within the spirit of my invention. The springs have a cushioning effect upon the filaments and greatly lengthen the life of the lamp particularly as they absorb vibrations and prevent friction and breakage of the filaments in their retaining elements or hooks *k*. For this reason a larger number of the retaining hooks than is at present employed can be
50 advantageously used.

Having described my invention, I claim,

1. In an electric filament lamp, an internal rigid filament carrier, a rigid filament holder supported thereby by an elastic supporting
55 means and filaments carried by said filament holder and connected with the filament carrier by coiled conducting wires.

2. In an electric filament lamp, a rigid filament carrier, a spiral suspension spring secured to said carrier, an independent filament holder secured to said spring and a spring connecting the opposite end of said holder with an adjacent portion of the bulb.

3. In an electric filament lamp, a rigid filament carrier, an independent suspended filament holder having one end thereof secured to said carrier and the other end secured to an adjacent portion of the bulb by spiral
65 springs, substantially as described.

4. In an electric filament lamp, a spring-suspended filament holder, end and side buffer springs therefor, metallic filaments carried by said holder and coiled conducting wires connecting said filaments with leading-
70 in wires, substantially as described.

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Witnesses:

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