J. REGENSTREIF.

CURRENT CONDUCTOR.

APPLICATION FILED JUNE 2, 1910.

982,873. **Patented Jan. 31, 1911.**

Fig. 1.

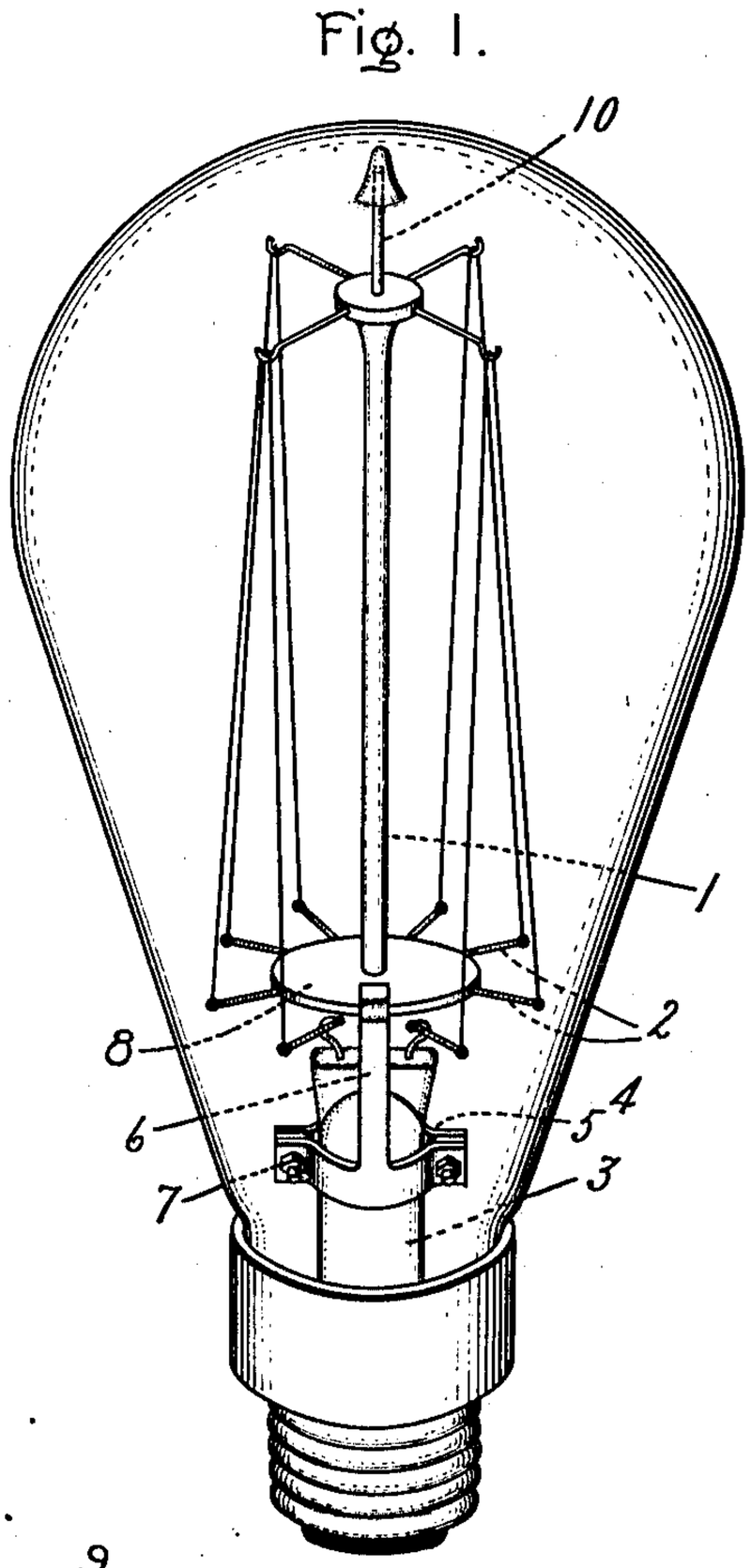


Fig. 3.

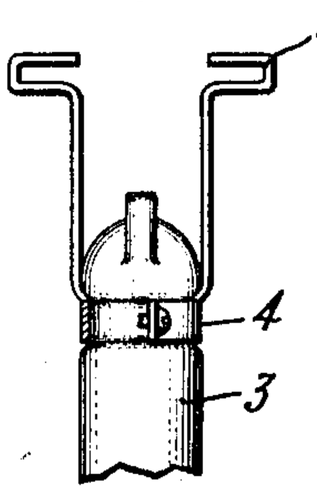


Fig. 2

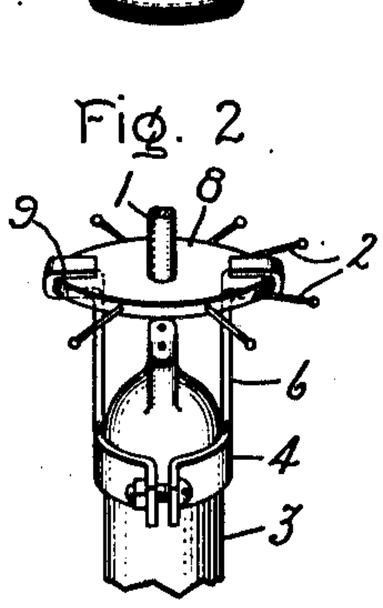
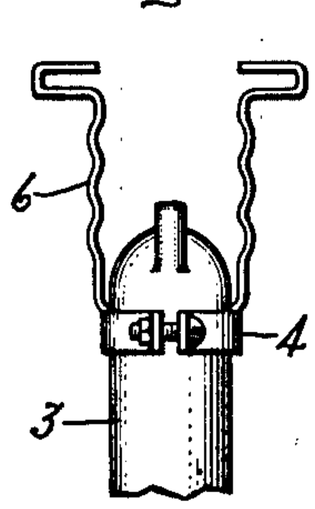


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAKOB REGENSTREIF, OF BERLIN, GERMANY, ASSIGNOR TO GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

CURRENT-CONDUCTOR.

982,873. Specification of Letters Patent. Patented Jan. 31, 1911.

Application filed June 2, 1910. Serial No. 564,648.

To all whom it may concern:

Be it known that I, JAKOB REGENSTREIF, a subject of the Emperor of Austria-Hungary, residing at Berlin, Germany, have invented certain new and useful Improvements in Current-Conductors, of which the following is a specification.

My invention relates to the support of current conductors, as for example, a filament of an incandescent lamp or the wire of the resister element of a ballast resistance.

Conductors in devices of this kind are commonly supported upon a framework, or spider which is in turn fastened to the base of the container.

My invention relates to the support, or, connection, of the framework to the base of the container.

The novel features of my invention are pointed out more particularly in the appended claims.

In the accompanying drawings Figure 1 illustrates in perspective an incandescent lamp provided with a filament spider fastened to the stem of the lamp in accordance with my invention; Fig. 2 is a detail view of the support shown in Fig. 1 as seen when rotated through an angle of 90°; Figs. 3 and 4 are detail views of modifications.

I will describe my invention with particular reference to an incandescent lamp for the sake of illustration, but wish it to be understood that it is not limited to a lamp structure but may be used in connection with ballast resistance, or other mounted conductors.

In an incandescent lamp the framework, or spider 1, provided with supports 2, carrying the filament, has been commonly attached directly to the flattened portion of the stem 3 of the lamp. Into this flattened portion, the leading-in wires are likewise commonly sealed. The weight of the spider filament, which in large units may be considerable is thus brought to bear directly upon the sensitive part of the lamp stem. Shocks or strains occurring during the transportation of the lamp are apt to start leaks around the leading-in wires and thus cause the deterioration of the vacuum of the lamp, if, indeed, the connection between the spider and the stem is not broken. According to my invention this difficulty is obviated and a support of greater strength and resiliency is produced by surrounding the stem 3 with a collar 5 which is in turn attached to the base of the spider 1 by means of strips 6 extending therefrom. The collar 5 is firmly drawn around the stem 3 by means of small bolts 7, as illustrated. The connecting strips 6 are fastened to the base 8 of the spider which consists of a suitable insulating material, such as glass, by doubling the edge of the strip over the base and pressing it into the glass, when softened by heat, as indicated, at 9 or in any other suitable manner.

Ordinarily it is sufficient to fasten the collar firmly enough to prevent side play, by tightening the bolts 7, but if desired, side play can be still further prevented by providing the farther end of the filament spider, with a projection 10, extending to the tip of the lamp. The stem 3 is in some cases provided with a restricted portion, or recess, as shown in Fig. 3 in which the collar 4 is fastened. In order to give a support of this kind greater resiliency which is particularly useful when fragile filaments are supported, the strips 6 are made of suitable resilient material in the form of springs as shown in Fig. 4. It is obvious that by this means of support, the flattened portion of the stem is entirely freed from the weight of the framework carrying the filament, and the latter is at the same time more resistant to shocks.

What I claim as new and desire to secure by Letters Patent of the United States is:—

1. The combination of a container, a supporting member projecting into the interior thereof, a framework in said container carrying an electrical conductor, and means for fastening said framework to said supporting member, comprising a collar encircling said supporting member and connected to said framework.

2. In an incandescent lamp, the combination of an envelop, a stem attached to the base of said envelop, a framework carrying a filament within said envelop and a support for said framework comprising a collar surrounding said stem.

3. In an incandescent lamp, the combina-

tion of an envelop, an inwardly projecting stem, a filament spider and means connecting said spider to said stem comprising a collar clasping said stem and supports extending from said collar to said spider.

4. The combination of a container, a supporting member extending into the interior thereof, a framework carrying an electrical conductor, a collar surrounding said supporting member and resilient means connecting said collar to said framework.

In witness whereof, I have hereunto set my hand this 19th day of April 1910.

JAKOB REGENSTREIF.

Witnesses:
WOLDEMAR HAUPT,
JULIUS RUMLAND.