

UNITED STATES PATENT OFFICE.

HARRY W. BRESLER, OF CHARLOTTENBURG, GERMANY, ASSIGNOR, BY MESNE ASSIGNMENTS, TO GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

PROCESS OF FORMING ELASTIC ANCHORS FOR INCANDESCENT-LAMP FILAMENTS.

951,232.

Specification of Letters Patent.

Patented Mar. 8, 1910.

No Drawing.

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To all whom it may concern:

Be it known that I, HARRY W. BRESLER, a citizen of the German Empire, residing at Charlottenburg, Kingdom of Prussia, German Empire, have invented certain new and useful Improvements in Processes of Forming Elastic Anchors for Incandescent-Lamp Filaments, of which the following is a specification.

My invention relates to incandescent electric lamps and is particularly advantageous in its application to lamps having metallic filaments. Such filaments are long and fine and must be supported at various points in their length, and in order to prevent breakage of the delicate and fragile structure of these filaments, the supports or anchors at points intermediate of their length must be elastic. It is customary to make these supports or anchors out of very fine flattened wires which cannot well be fused into the glass support directly because they are liable to be burned off in the fusing process. To avoid this difficulty the plan of fusing a thicker wire into the glass support has been tried, and then forming a loop in this thick support into which one end of the fine flattened wire anchor is melted. This operation is tedious and costly and consequently not altogether satisfactory and attempts have been made to revert to the practice of fusing the flattened spring anchor wire directly into the glass support. As above stated, how-

ever, this has resulted often in one or more of the wires being burned off by the heat of the flame used for melting the glass for fusing adjacent anchors in position.

I have overcome these difficulties by dispensing with the thicker wire support and the fine flattened wire and using the fine spring wire of ordinary cylindrical cross section, which, I find, can be fused directly into the glass support without danger of being burned off at any step in the process. After all the short bits of round wire are fused into the glass support I press or otherwise give to the protruding portions of the wires, the necessary flat form, thus shaping them *in situ* and obtaining the desired elasticity.

Having, therefore, described my invention, I claim:

The process of forming elastic anchors for filaments of incandescent lamps which comprises the following steps: first, fusing pieces of round fine wire into a glass support, and second, flattening said wires *in situ* to produce the desired elasticity of the anchor.

In witness whereof I have hereunto set my hand this sixth day of May, 1909, in the presence of two subscribing witnesses.

HARRY W. BRESLER.

Witnesses:

HENRY HASPER,
WOLDEMAR HAUPT.