

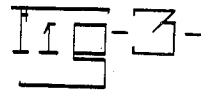
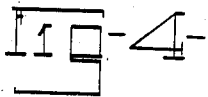
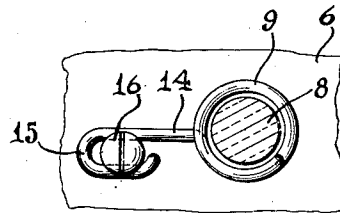
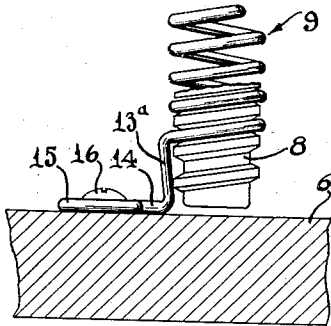
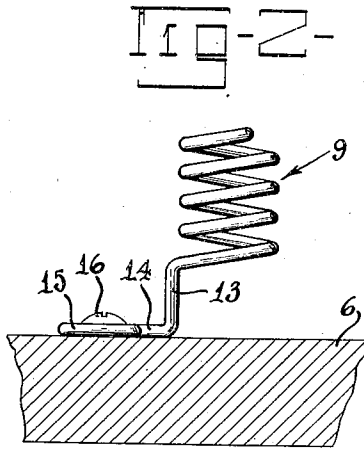
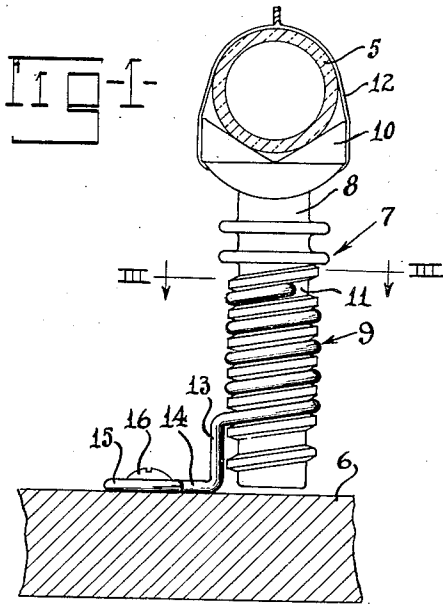
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J. R. HOGE

2,051,480

ELEVATION POST FOR SUPPORTING LUMINOUS TUBES

Filed April 14, 1934



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# UNITED STATES PATENT OFFICE

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## ELEVATION POST FOR SUPPORTING LUMINOUS TUBES

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3 Claims. (Cl. 248—50)

The present invention relates to improvements in elevation posts of the type ordinarily employed in supporting the luminous tubes of the well known neon signs.

5 An object of the invention is the provision of an elevation post involving a novel construction facilitating adjustment to the necessary height and resiliency whereby breakage or distortion of the various elements under mechanical shock or strain may be materially reduced.

10 Another object is the provision in an elevation post of the above character of a helical spring having a part thereof formed and positioned to exert such pressure on the insulating element of the post that accidental or premature movement of the insulating element is impossible.

15 Other objects will be in part apparent and in part pointed out hereinafter.

In the drawing:

20 Fig. 1 is a sectional elevational view illustrating one form of the invention.

Fig. 2 is a detail elevational view with parts in section showing the helical spring in which the insulating element is adapted to be threaded.

25 Fig. 3 is a sectional view taken substantially along the line III—III of Fig. 1.

Fig. 4 is a sectional elevational view showing the helical spring formed to apply holding pressure to the insulating element.

30 In Fig. 1 there is illustrated a luminous tube 5 which may be of any conventional or preferred type and which can have any configuration desired. This tube is supported in spaced relation to the base 6 by means of a plurality of elevation posts 7.

Each of these elevation posts consists of an insulating post 8 or element, and a holder 9 or spiral spring portion.

40 The insulating post 8 includes a channeled rest 10 or head from the lower side of which a screw threaded stem 11 projects. The tube may, as is customary, be separably connected to said rest by means of a wire 12.

45 The holder 9 which assumes the form of a helically coiled wire is threaded onto the stem 11, the opposite ends of the coiled portion terminating short of the end portions of said stem. By such arrangement of the coiled portion the amount of material required to produce a satisfactory support is comparatively small while the resiliency of the support is increased over other known supports of this character. At one end of the holder the wire is bent to provide a leg 13 extending substantially parallel with the axis of the stem and terminating in a foot 14 disposed at right angles to said leg, said foot having an eye 15 therein through which an attaching screw 16 is passed for securing the holder to the base 6.

60 It will be observed that this holder by assuming

the form of a spiral spring attached to the base in the fashion described provides for resilient connection between the base 6 and insulating post 8 whereby the likelihood of breakage of the post or other parts due to mechanical shock and strains, is greatly reduced.

5 In Fig. 4 the leg 13<sup>a</sup> at the base of the spiral spring holder extends inwardly and downwardly toward the axis of the insulating post a sufficient degree to apply braking pressure to the insulating post whereby the danger of premature or accidental movement of the insulating post relative to the holder is held to a minimum.

10 Modifications may be resorted to within the spirit and scope of the appended claims.

15 What I claim is:

1. An elevation post for luminous tube signs arranged to be mounted between the outer face of a support and the tube to be supported, comprising, an externally screw threaded insulating post, a holder therefor including a helically coiled wire threaded upon said post and spaced from the opposite ends thereof, a leg portion forming an integral part of the holder and extending alongside of said post in proximity to its inner end, and means for effecting rigid connection between the free end of said leg and the support.

2. An elevation post for luminous tube signs arranged to be mounted between the outer face of a support and the tube to be supported, comprising, an externally screw threaded insulating post, a holder therefor including a helically coiled wire threaded upon said post and spaced from the opposite ends thereof, a leg portion forming an integral part of the holder and extending alongside of said post in proximity to its inner end, an attaching foot formed integrally with the leg, and means for rigidly securing the foot to said support, said leg being disposed at an angle to the axis of the coil and post to bear against the surface of said insulating post whereby the latter is secured against accidental movement.

3. An elevation post for luminous tube signs arranged to be mounted between the outer face of a support and the tube to be supported, comprising, an externally screw threaded insulating post, a holder therefor including a helically coiled wire threaded upon said post and spaced from the opposite ends thereof, a leg portion forming an integral part of the holder and extending alongside of said post in proximity to its inner end, an attaching foot formed integrally with the leg, and means for rigidly securing the foot to said support, said leg extending downwardly and inwardly toward the axis of said insulating post for frictional engagement with the side surfaces of the latter.

JOHN RALPH HOGE. 60