June 27, 1933. J. RAYMOND 1,915,801

SIGN CONSTRUCTION AND SUPPORT

Filed April 7, 1932

Fig. 2.

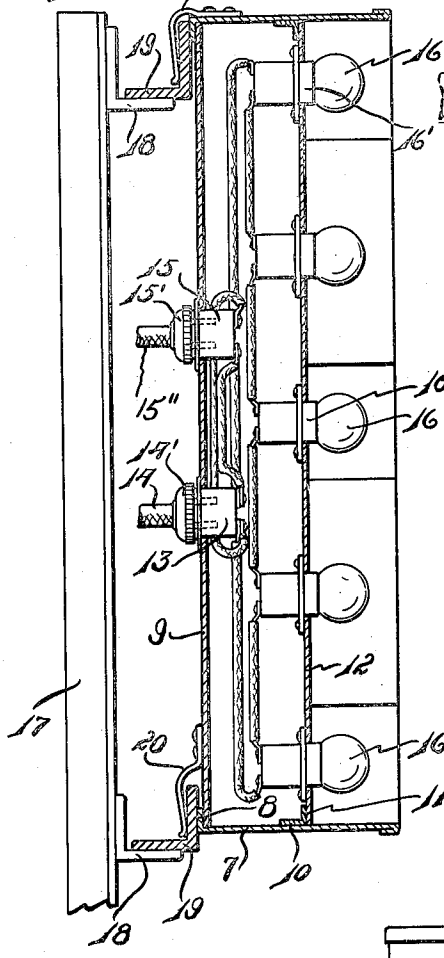


Fig. 1.

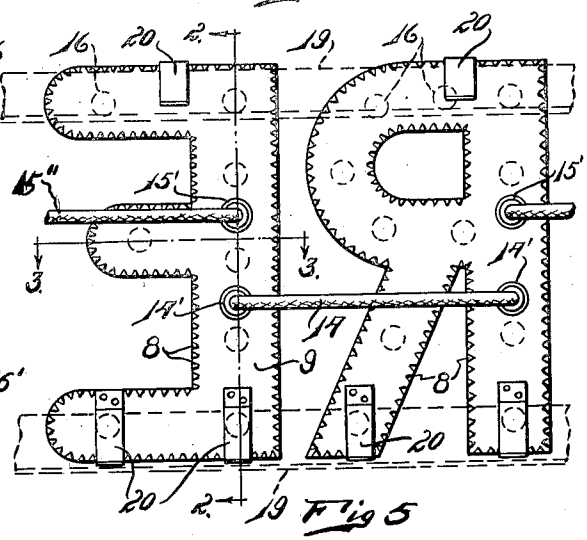


Fig. 5

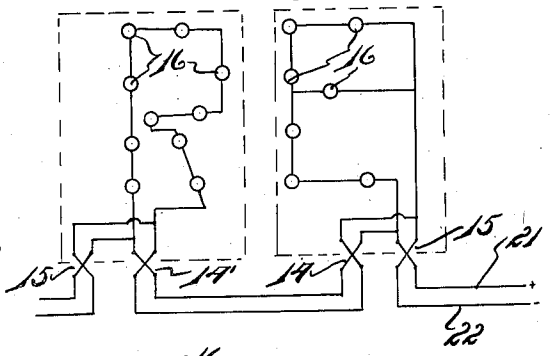


Fig. 3.

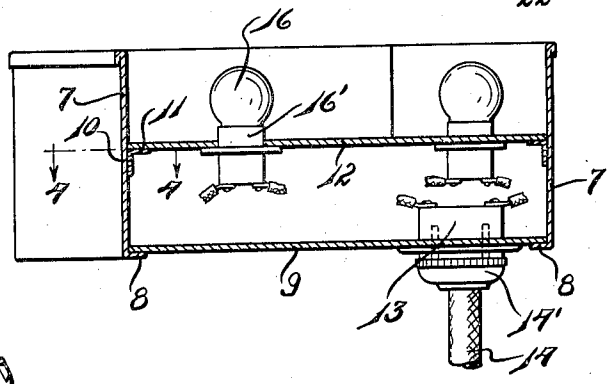
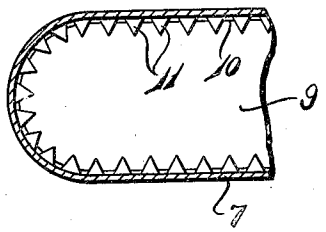


Fig. 4.



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UNITED STATES PATENT OFFICE

JOSEPH RAYMOND, OF DETROIT, MICHIGAN

SIGN CONSTRUCTION AND SUPPORT

Application filed April 7, 1932. Serial No. 603,781.

My invention relates to a new and useful improvement in an electric sign and relates particularly to the formation of the separate letters of which the sign is composed, the means of electrically connecting the light bulbs in each letter, and the means of individually supporting each letter separately on a suitable support.

It is an object of the present invention to provide a structure in which a sign may be composed of any desired number of separable letters, separately mounted, so constructed that the light bulbs in the various letters may be easily and quickly connected to a source of electrical energy without requiring any particular form or permanent or semi-permanent wiring.

It is another object of the present invention to provide a supporting means for each of the separable letters of a sign whereby the letter may be easily and quickly placed in position and removed therefrom.

It is another object of the present invention to provide in an electrical sign of this class of letter forming structures having socket plugs mounted thereon for the reception of cooperating parts of plugs so that an easy and quick electrical connection may be made.

Another object of the invention is the provision of a structure forming a letter, in which the frame may be easily and quickly formed to the desired position, and on which a back and a central supporting partition may be easily and quickly mounted.

Other objects will appear hereinafter.

The invention consists in the combination and arrangement of parts hereinafter described and claimed.

The invention will be best understood by a reference to the accompanying drawing which forms a part of this specification, and in which,

Fig. 1 is a rear elevational view of a pair of letters embodying the invention.

Fig. 2 is a sectional view taken on line 2—2 of Fig. 1.

Fig. 3 is a sectional view taken on line 3—3 of Fig. 2.

Fig. 4 is a fragmentary view taken on line 4—4 of Fig. 3.

Fig. 5 is a diagrammatic view illustrating the wiring used in the invention.

In forming the structure which comprises the various letters, the same type of construction is followed regardless of the letter which is being formed. This structure comprises an outer shell or casing 7 which is bent to the outline of the letter to be formed. One edge of this plate which forms the outer shell or casing 7 is serrated so as to provide teeth 8 which facilitate the bending of the plate 7 into the desired shape and which also serve as an abutment against which the rear wall 9 may engage, and to which this wall may be secured for welding or in any other suitable manner. A strip 10 is secured to the inner surface of the plate of shell 7 at substantially the medial line thereof, and this strip 10 is provided with the teeth or serrations 11 which extend at right angles thereto so as to lie parallel to the teeth or serrations 8. A supporting partition is abutted against and secured to the teeth 11 by welding or in any other suitable manner. Mounted in the rear wall 9 are the sections 13 and 15 of socket plugs which are adapted for the reception of cooperating parts 14′ and 15′ of these plugs. An electric cable 14 serves to connect a pair of the plug sections 14′ and an electric cable 15″ serves to connect a pair of the plug sections 15′. These plug sections 13 and 15 are connected in the electric circuit in which are positioned the sockets 16′ in which are mounted the illuminating lights 16.

A framework for supporting the sign is generally provided and this framework as used with the particular type of structure which I have designed comprises uprights or supports 17 carrying the L shaped clips 18 which serve as supports for the horizontally disposed angle irons 19. Mounted on the body of the letters are the horizontal clips 20 which engage over the upturned end angle irons 19 and serve to detachably mount the letters on the support. By this means of mounting, the letters may be easily and

quickly placed in position and removed therefrom.

It will be noted in the formation of the letters that the lights 16 are positioned inwardly of the shell which forms the outline of the structure so that these light bulbs are thus protected from the elements, and a suitable reflecting body formed from the member 7 and the partition 10 is provided for the light bulbs.

By means of the plug connection whereby the letters are connected to each other, any number of letters may be used in forming a sign and easy and quick connection made to a source of electrical supply, the cable at the end letter being plugged into the feed lines 21 and 22.

While I have illustrated and described the preferred form of my invention, I do not wish to limit myself to the precise details of structure shown, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A sign letter comprising: a contour forming plate bent to the outline of the letter, one edge of said plate being serrated to provide teeth, said teeth being bent at right angles to said plate; a back plate embraced by said outline forming plate and engaging with and secured to said teeth; a tooth bearing strip mounted on the inner surface of said first mentioned plate between the edges thereof, the teeth on said tooth bearing strip being bent to extend parallel to said back plate; a partition plate embraced by said first mentioned plate engaging with and secured to the teeth on said strip; light sockets mounted in said partition plate; light bulbs in said light sockets; plug sockets mounted in said back plate and connected in the same circuit as said sockets.

2. In a sign construction: a plurality of separate letters; light bulbs mounted on each of said letters; an electric circuit in each of said letters for lighting said light bulbs; a plurality of independent plug sockets connected in the circuit of each letter; and detachable means cooperating with said plug sockets for connecting together the circuits of adjacent letters with each other and to a source of electric power.

In testimony whereof I have signed the foregoing specification.

JOSEPH RAYMOND.