F. W. BURTON.

ILLUMINATED SIGN.

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1,152,703. Patented Sept. 7, 1915.

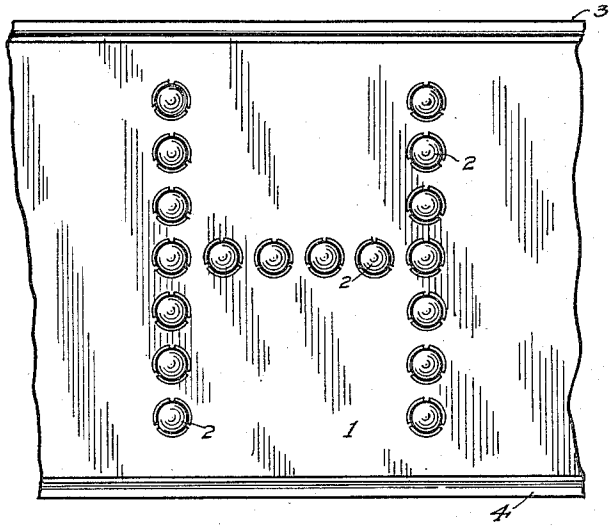


Fig. 1

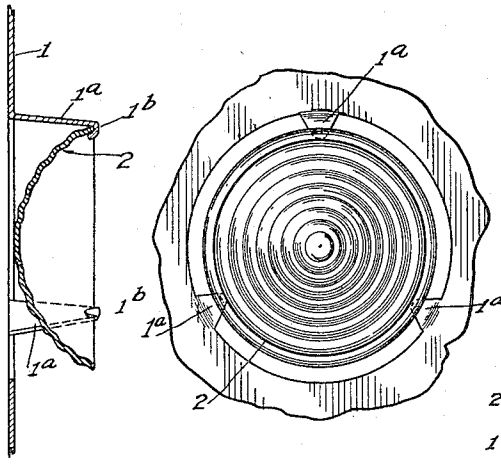


Fig. 3 Fig. 4

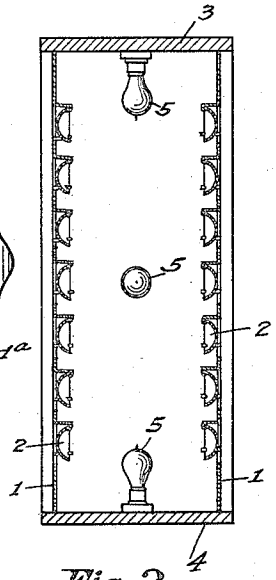


Fig. 2

Witnesses
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ILLUMINATED SIGN.

1,152,703. Specification of Letters Patent. Patented Sept. 7, 1915.

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To all whom it may concern:

Be it known that I, FRANK W. BURTON, a citizen of the United States, and a resident of San Diego, in the county of San Diego and State of California, have invented certain new and useful Improvements in Illuminated Signs, of which the following is a specification.

My invention relates to illuminated signs in which each character shown upon the sign is composed of a plurality of convex surfaces upon which a light is thrown for illuminating said convex surfaces and the objects of my invention are, first, to provide a construction and mounting for such surfaces that will produce great efficiency of illumination; second, to provide a sign of this class which is simple and economical of construction and durable; third, to provide such a sign which may be made in various shapes without decreasing the efficiency of the illumination and in which each illuminated dished plate may be lighted from all directions.

With these and other objects in view as will appear hereinafter, my invention consists of certain novel features of construction, combination and arrangement of parts as will be hereinafter described in detail and particularly set forth in the appended claim, reference being had to the accompanying drawings and to the characters of reference thereon, which form a part of the specification, in which:

Figure 1 is a side elevational view of a fragmentary portion of a sign, showing one of the characters thereon, Fig. 2 is a transverse sectional view of a double faced sign, showing the characters mounted therein, Fig. 3 is a full sized detail fragmentary view of one of the side plates, showing one of the dished plates which form the character on the sign, and Fig. 4 is a side elevational view thereof.

Similar characters of reference refer to similar parts throughout the several views.

The side plates 1, illuminated dished plates 2, top pieces 3, bottom piece 4, and lamps 5, constitute the principal parts of my sign.

The side plates 1 are preferably metallic sheets of the proper thickness. Out of these metallic sheets are cut a plurality of holes forming the characters adapted to form one of the characters desired to be shown on the sign. These holes are round except that there is left a plurality of supports 1^a, preferably three, which are an integral portion of the said metal. These supports 1^a are bent inwardly and each provided with a hook 1^b on its inner ends, adapted to support the illuminated dished plates 2 and hold said dished plates in position when the points 1^b are pressed tightly against said dished plates. These illuminated dished plates 2 are preferably corrugated, as shown best in Figs. 3 and 4, which provides a better illuminating surface and are of a convex surface on their illuminating side, said convex surface facing toward the hole in the side plate 1. This convex or illuminating surface may be painted in various colors and when the light from the inside illuminates this convex surface, this dished plate 2 will represent a light resembling a colored incandescent electric light globe of whatever color the convex surface of this dished plate 2 is painted. A plurality of lights are used in this sign, preferably four, so that the light from all four lamps from different directions shining on the convex surfaces of said dished plates, intensifies the illumination thereon. The sign may be made double, as shown best in Fig. 2, and the lamps will illuminate the dished plates forming the characters on both sides of said sign. The top 3, bottom 4 and end pieces carry the lights and the side plates which should be spaced apart a sufficient distance, so that the lights will provide the proper illumination to the convex surface of these dished plates 2. It is obvious that with this construction there is provided an illuminated sign, which is simple and economical of construction, that the lamps throwing rays of light from four or more directions onto each of these dished plates will concentrate the rays on this convex surface providing a very efficient illumination of this dished plate. If this illuminated surface is painted red, blue or other colors the sign when illuminated will present an appearance very similar to incandescent globes of the same color as these sections are painted.

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

In an illuminated sign the combination of metallic side plates spaced apart from each other, each metallic side plate provided with a plurality of circular holes therein in such

a position as to form a plurality of characters, a plurality of leg members integral with the metallic side plates extending inwardly from the edge of each of said holes some distance, provided with bent portions on their inwardly extending ends and a corrugated convex surface plate mounted in said leg members so that the convex surface faces the hole from the inner side of said plate and set back so that all of said convex surface plate is set in from said metallic side plate and means for illuminating said convex surface plates.

In testimony whereof, I have hereunto subscribed my name in the presence of two subscribing witnesses.

FRANK W. BURTON.

Witnesses:
ABRAM B. BOWMAN,
LUELLA WARE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."