H. HOAG.

SIGN.

APPLICATION FILED OCT. 18, 1909.

996,715. Patented July 4, 1911.

Fig. 1

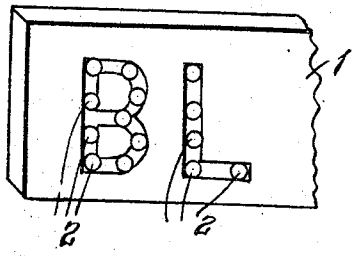


Fig. 2

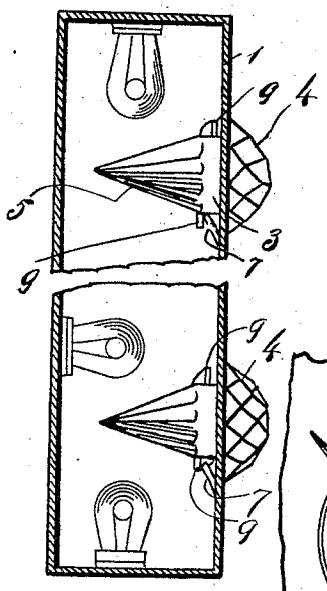
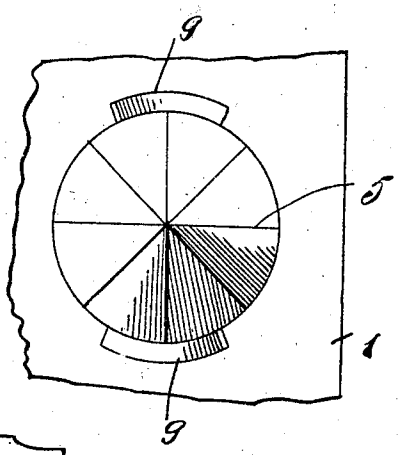


Fig. 3



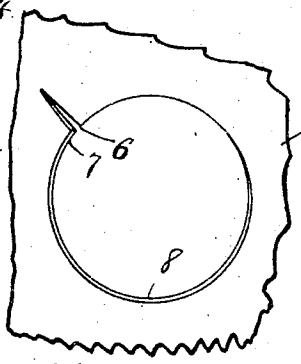
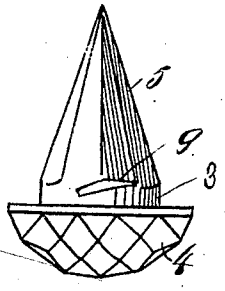


Fig. 4.

Fig. 5



Witnesses:
L. T. Knight
L. B. Mayfield

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UNITED STATES PATENT OFFICE.

HARRY HOAG, OF FORT WORTH, TEXAS.

SIGN.

996,715. Specification of Letters Patent. Patented July 4, 1911.

Application filed October 18, 1909. Serial No. 523,359.

To all whom it may concern:

Be it known that I, HARRY HOAG, a citizen of the United States, residing at Fort Worth, county of Tarrant, and State of Texas, have invented certain new and useful Improvements in Signs, of which the following is a specification.

This invention relates to signs and particularly illuminated signs, and the object is to provide means for reducing the cost of illuminated signs by dispensing with the large number of lights now used and necessary to produce advertising signs and other illuminations and substituting prisms for the lights and using a few lights, the prisms serving to refract and spread the light.

Other objects and advantages will be fully explained in the following description and the invention will be more particularly pointed out in the claim.

Reference is had to the accompanying drawings which form a part of this application and specification.

Figure 1 is a perspective view of a sign containing my improvements. Fig. 2 is a detail view, enlarged, illustrating the manner of mounting the lights and prisms. Fig. 3 is a view of the interior end of one of the prisms. Fig. 4 is a broken view of the casing, showing the provision for securing a prism in place. Fig. 5 is a side elevation of one of the prisms.

Similar characters of reference are used to indicate the same parts throughout the several views.

A broken sign casing is shown in the drawings for illustrating the improvements. A casing 1 of any suitable design may be used. Pictures, letters, or other advertising forms are represented on the casing by prisms and the prisms are illuminated by lights. Each letter or design is formed of a plurality of prisms 2. Each prism is composed of a cylindrical body portion 3, diamond-shaped facets 4, and a pyramid portion 5. The light is received by the pyramid portion and refracted and transmitted through the prism and dispersed through the diamond-shaped facet. The dispersing portion 4 has a greater area in cross-section than the cylindrical portion and thus forms an annular shoulder which rests against the casing 1. The casing 1 is perforated to receive each prism and a slit 6 is formed in the casing from the perforation. The casing on one side of the slit is raised at 7 and the casing is raised about the greater portion of each perforation to form a rim 8. The prism has two inclined wings or segment flanges 9. The prisms are secured to the casing by inserting the pyramid portions through the perforations and turning the prisms so that the wings or flanges on one side will pass through the slits 6 and then the turning is continued until the wings or flanges on the other side pass through the slits 6. The wings or flanges 9 are formed on the cylindrical portion of the prism. The diamond-shaped dispersing facet rests against the outside of the casing and the wings 9 engage the raised edge or rim 8 and thus clamp the prism in place. The flanges 9 are wedged against the rim or raised edge 8. The part 4 of the prisms is formed into diamond-shaped facets in order that there may be the greatest possible dispersion of the light. The lights for illuminating the prisms are placed inside of the casing 1 and are arranged about the prisms so that the light will strike all parts of the pyramid portions of the prisms. Any suitable lights may be used.

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

A sign comprising a casing having openings and slits in the casing about said openings, raised edges on the inside of the casing at said slits, a plurality of prisms to form letters or symbols, each prism having a pyramid portion within the casing, a diamond-shaped facet portion on the outside of the casing and a cylindrical portion engaged by said casing, said facet portion forming an annular shoulder, cam-shaped ribs on said cylindrical portion for engaging said raised edges to clamp said flange against the outside of the casing, and means for illuminating said pyramid portions of the prisms.

In testimony whereof, I set my hand in the presence of two witnesses, this 7th day of May, 1908.

HARRY HOAG.

Witnesses:
A. L. JACKSON,
J. W. STITT.