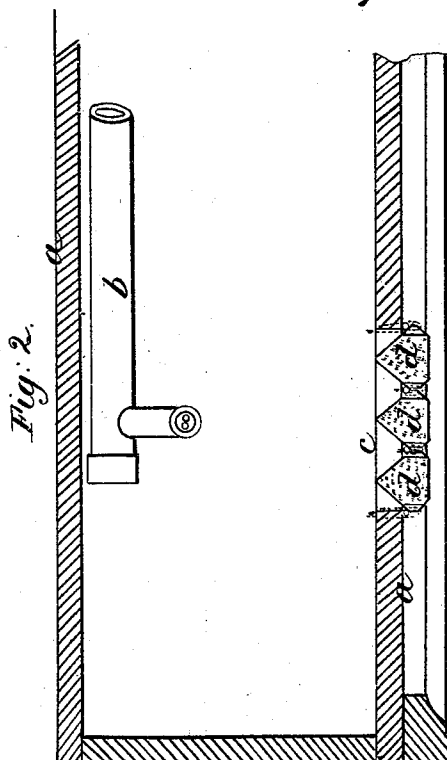
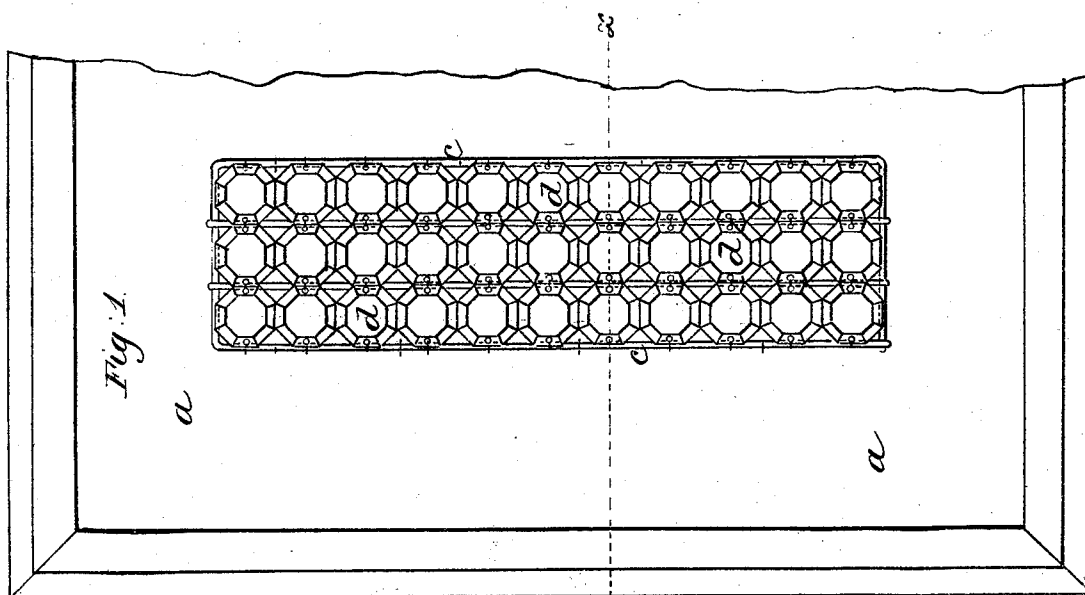


G. H. Kitchen.
Construction of Signs.
N^o 65,817. Patented Jun. 18, 1867.



Witnesses
Chas. H. Smith
Geo. D. Walker

Inventor;
Geo. H. Kitchen

United States Patent Office.

GEORGE H. KITCHEN, OF NEW YORK, N. Y.

Letters Patent No. 65,817, dated June 18, 1867.

IMPROVEMENT IN THE CONSTRUCTION OF SIGNS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE H. KITCHEN, of the city and State of New York, have invented and made a certain new and useful Improvement in Prismatic Illuminators; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1 is an elevation of one end of a prismatic illuminator, representing the letter I or number 1; and Figure 2 is a sectional plan of the same at line *xx*, fig. 1.

Similar letters denote the same parts.

Prismatic illuminators have heretofore been made in the form of globes and figures made of a series of prisms attached together upon a frame of wire. This construction is very costly, because the whole illuminator is made of prisms, and besides this there is no definite outline to the illuminator; hence the same could only be employed as a sign containing letters or numbers, in consequence of differences in the colors of the glass prisms. These in the day-time formed very indistinct signs except by transmitted light, and it is seldom that a sign can be placed so that the light shines through it to the observer; and at night, said signs, when illuminated by a gas or other light contained within, are not bold or distinct, and cannot be clearly discerned at a distance, on account of the blending of the reflected prismatic rays of light.

The nature of my said invention consists in an illuminator formed of an opaque casing, having openings through it of the size and shape of the figure, letter, or other character to be represented, said openings being filled with a series of glass prisms connected together and sustained in their places, and the illuminator fitted so that light may be employed behind it to illuminate the same at night. By this construction the casing forms a contrast to the prisms, so that the sign can be easily seen by daylight, and at night the light only passes through the openings; hence the illuminated prisms make a handsome and attractive sign or emblem that can be seen with distinctness. Besides this there are not as many prisms required as heretofore, and hence the cost is lessened.

In the drawing, *a* represents the casing, adapted to enclose a space into which any suitable light is to be introduced at night, and in the drawing I have shown at *b* a gas pipe and burner. In the casing *a* I form an opening or openings, *c*, of the desired size and shape, and I apply the glass prisms *dd* at said openings, and sustain them in ranges by wires or otherwise. The casing *a* may be made of wood, metal, or other material that is opaque. This prismatic illuminator is a new and useful article of manufacture.

What I claim, and desire to secure by Letters Patent, is—

A prismatic illuminator formed of an opaque case with openings, to which prisms are applied, substantially as and for the purposes set forth.

In witness whereof I have hereunto set my signature this sixth day of December, A. D. 1866.

GEO. H. KITCHEN.

Witnesses:

CHAS. H. SMITH,
GEO. D. WALKER.