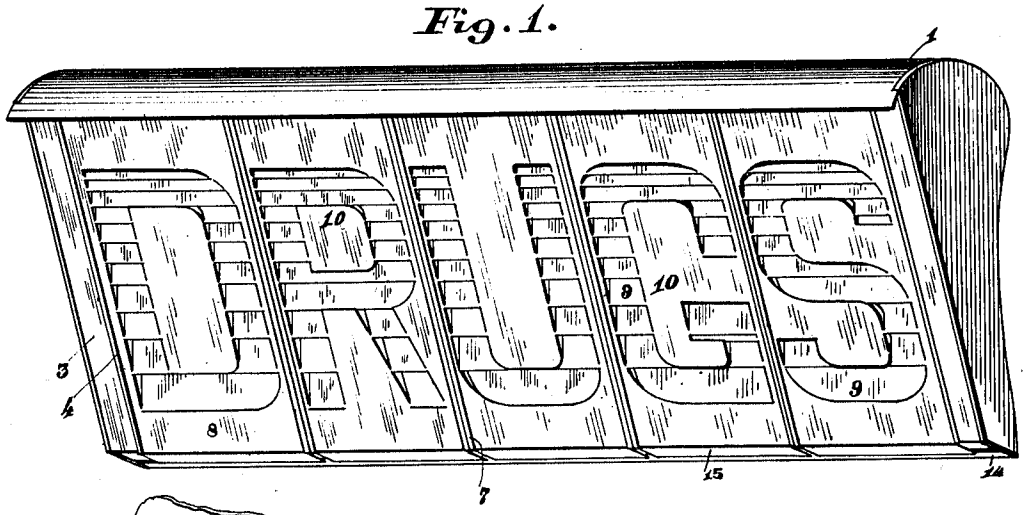
S. FELVER.

ILLUMINATED SIGN.

APPLICATION FILED JUNE 25, 1910. RENEWED JULY 14, 1911.

1,003,724. Patented Sept. 19, 1911.

Fig. 1.



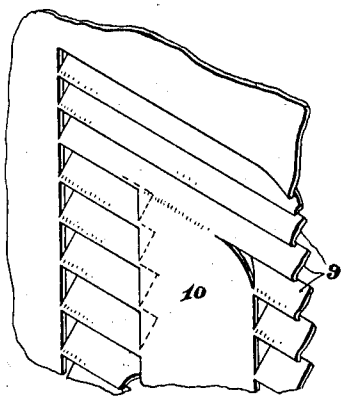


Fig. 3.

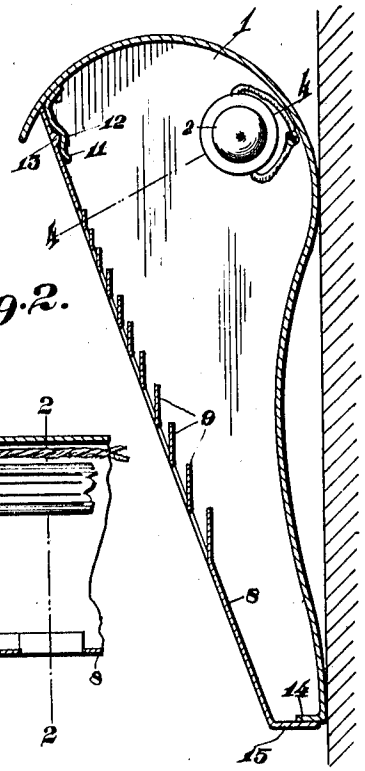


Fig. 2.

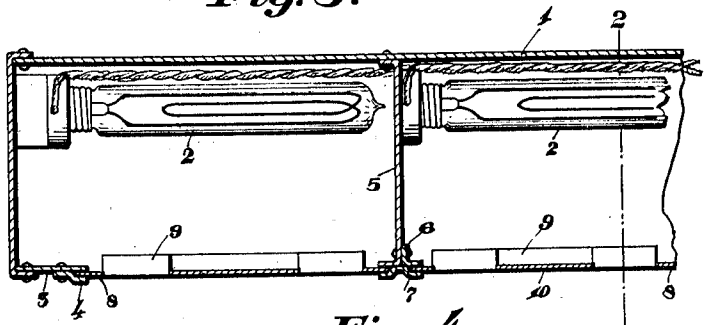


Fig. 4.

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UNITED STATES PATENT OFFICE.

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ILLUMINATED SIGN.

1,003,724. Specification of Letters Patent. Patented Sept. 19, 1911.

Application filed June 25, 1910, Serial No. 568,833. Renewed July 14, 1911. Serial No. 638,583.

To all whom it may concern:

Be it known that I, SAMUEL FELVER, a citizen of the United States, residing at Coshocton, in the county of Coshocton and State of Ohio, have invented certain new and useful Improvements in Illuminated Signs, of which the following is a specification.

The present invention relates to pictures and signs for ornamenting and advertising purposes and specifically to that class of such devices which are rendered more brilliant and visible by the employment of sources of artificial light.

The objects of the present invention are to cause the picture or sign to emit light and to provide means for readily changing the subject of the picture or sign in an easy and simple way without trouble.

Another object of the present invention is to provide means whereby the reflectors are brought into such position that they will emit the greatest amount of light-rays and at the same time maintain the proper or desired amount of reflection.

In the accompanying drawings forming part of this application: Figure 1 is a front view of the illuminated sign. Fig. 2 is a vertical section on line 2—2, Fig. 4. Fig. 3 is a view showing a portion of the picture or sign plate. Fig. 4 is a horizontal section on line 4—4, Fig. 2.

Similar numerals of reference indicate corresponding parts in all the figures of the drawing.

In the accompanying drawing, 1 represents the casing or housing for the various light or lights, which casing or housing is preferably of the form shown in the drawing. At or near the top portion of the casing or housing are secured the desired number of lights 2, which are preferably electric lights of the incandescent type. To the ends of the housing or casing 1 are connected in any convenient and well known manner the bars 3, to which bars are attached the angled bars or strips 4, which angled strips or bars are for the purpose hereinafter described. In the construction of signs it is desirable that each letter plate covers a separate and distinct chamber and for this purpose a number of partitions 5 are connected to the casing or housing 1 and to the front edges of said partitions are attached the angled bars 6 and 7, which angled bars may be secured by rivets or in any other convenient and well known manner. The angled bars 4 and 7 are for the purpose of forming grooves to receive the vertical edges of the sign-plates 8. The various sign plates 8 are provided with a series of reflectors 9, which are cut from the plate proper and in such a manner that a series of strips or bars are produced or formed, said strips or bars being partially severed from the plate so that the reflectors remain integral with the sign plates proper; but may be bent at any desired angle to the plane of the sign plate.

The portions 10 of the sign plate designed to constitute the dark parts of the letters are uncut, thereby leaving what might be termed opaque parts which constitute the dark parts of the letter or letters. The lights 2 are preferably located in the top or upper portions of the casing or housing and by locating the lights in the upper portion of the casing or housing the rays of light will strike the reflectors at different angles and in order to compensate for the different angles of the rays of light the reflectors 9 in the upper portion of the letters are formed narrower than the reflectors in the lower portion of the letters, said reflectors increasing in width gradually from the top of the sign to the bottom thereof.

It will be understood that in order to permit the rays of light emanating from the light contained in the casing or housing the reflectors must be spaced from each other and also must be located at an angle to the plane of the sign plate. It is also of importance that the reflectors are brought into as near alinement with the rays of light as possible so that the luminosity of the sign or picture may be increased. For the purpose of increasing the luminosity of the sign or picture the sign plate 8 is inclined from a perpendicular line as illustrated in Fig. 2, by which arrangement the reflectors are brought into the closer or nearer alinement with the rays of light. By gradually increasing the width of the reflectors as they increase in distance from the source of light a more uniform light is maintained from the top to the bottom of the letter or picture. This is brought about by the increased surface of the reflectors. For the purpose of producing proper reflection the front surfaces or the outside surfaces of the reflectors should be colored white or a light color.

In signs it is of importance that each letter

of the sign is brought to substantially the same degree of luminosity and in order to prevent the blending of the lights where a number or series of lights are located in a single casing or housing, each letter-plate is located directly in front of a separate and distinct light or lamp chamber For the purpose of providing a separate chamber for each letter-plate a series of partitions 5 are provided, which partitions are secured to the casing or housing 1 in any convenient and well known manner.

For the purpose of providing letter or sign plates that may be interchangeable the means for guiding the sign or letter plates should be spaced equal distances apart so that all of the letter plates of any particular sign may be of the same size. For the purpose of providing means for holding the letter plate in proper relative position the top or upper portion of the casing is provided with a spring flange 11, which flange may be formed integral with the casing or it may be made separate or attached in any convenient and well known manner. The spring flange 11 is provided with a groove or indentation 12, which indentation is for the purpose of receiving the nib or rib 13 on the plate 8 and as the plate is moved upward and brought into position to close the front of the chamber the spring flange 11 will hold the letter or sign plate in proper relative position, but in such a manner that it can be easily removed at any time. For the purpose of limiting the upward movement of the sign or letter plate 8, the back of the housing or casing 1 is provided with the said extended flange 14, which flange forms a stop as against the upward movement of the flange 15 formed upon the bottom of the plate 8.

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

1. In an illuminated device of the character described, the combination with a casing, a series of reflectors, said reflectors being ornamented on the front faces thereof with the complete design, said reflectors increasing in width from the top to the bottom of the device, and means for illuminating the series of reflectors, substantially as and for the purpose specified.

2. In an illuminated device of the character described, the combination with a casing, a sign plate detachably connected to said casing, said sign plate inclined at an angle to a perpendicular line, a series of reflectors and means located behind the series of reflectors for illuminating the sign, substantially as and for the purpose specified.

3. In an illuminated device of the character described, the combination with a casing, a sign plate provided with a series of reflectors, said series of reflectors having gradual increasing width, the extreme width of the widest reflector located at the extreme distance from the narrowed reflector and means located behind the series of reflectors for illuminating the sign, substantially as and for the purpose specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

SAMUEL FELVER.

Witnesses:
J. C. ADAMS,
J. C. BRISTER.