Aug. 6, 1935. J. L. BERGGREN 2,010,004

SIGN

Original Filed Feb. 27, 1933

Fig. 1.

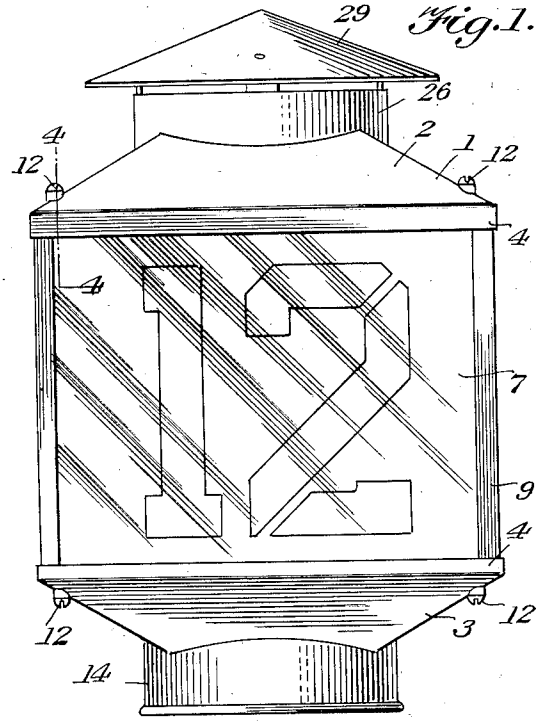


Fig. 7.

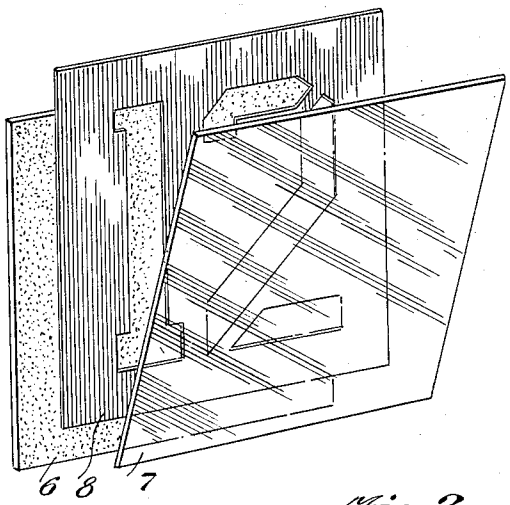


Fig. 2.

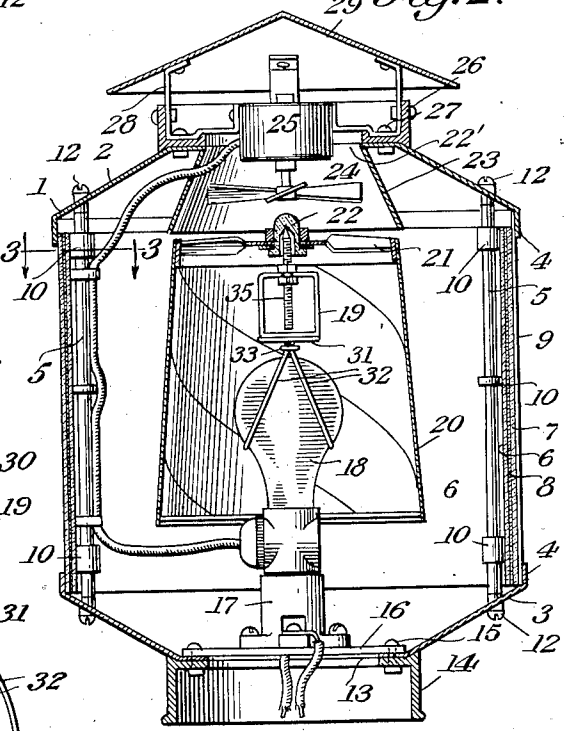


Fig. 3.

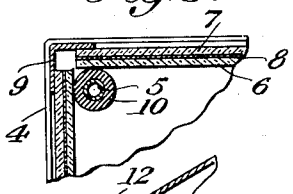


Fig. 4.

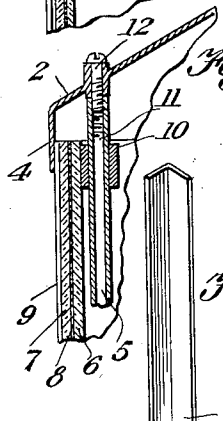
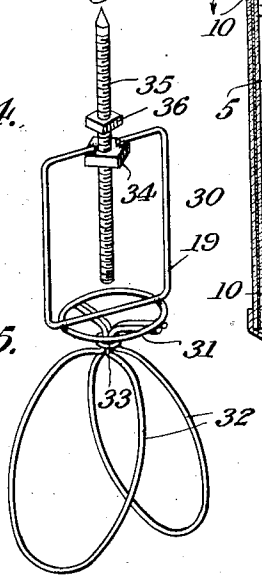


Fig. 5.

Fig. 6.



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2,010,004

UNITED STATES PATENT OFFICE

2,010,004

SIGN

John L. Berggren, Chicago, Ill.

Application February 27, 1933, Serial No. 658,868
Renewed November 3, 1934

4 Claims. (Cl. 40—40)

This invention relates to signs of the type set forth in my U. S. Letters Patent granted April 12, 1932 and numbered 1,853,399 and has for the primary object, the provision of an improved sign casing for the color varying means and the illuminating means and said casing is so constructed that the display or advertising medium will be clearly observed from a distance and may be easily and quickly changed in whole or in part and also the entire device may be readily taken apart and packed in a comparatively small carton or packing case for shipment or storage.

Another object of this invention is the provision of an improved support for the color varying shield which supports the latter directly on the illuminating means for free rotation and adjustment relative thereto and removal from the illuminating means and the sign casing when desired.

A further object of this invention is the provision of means whereby air may be drawn through the sign casing and the color varying shield to retain the latter in rotation.

With these and other objects in view this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which

Figure 1 is a side elevation illustrating a sign constructed in accordance with my invention.

Figure 2 is a vertical sectional view illustrating the same.

Figure 3 is a detail sectional view taken on the line 3—3 of Figure 2.

Figure 4 is a detail sectional view taken on the line 4—4 of Figure 1.

Figure 5 is a detail view illustrating one of the corner strips.

Figure 6 is a perspective view illustrating a support for the color varying shield.

Figure 7 is a perspective view illustrating the panels and stencil of the display or advertising medium.

Referring in detail to the drawing, the numeral 1 indicates a sectional casing including a top 2 and a bottom 3. The top and bottom each are provided with inclined walls for the purpose of shedding rain, snow and the like. The top and bottom each are of rectangular shape in general outline to provide to the casing 1 sides, each side providing a display or advertising medium. The top and bottom are provided with marginal flanges 4 opposing each other and said top and bottom are detachably connected by corner posts 5. Panels 6 and 7 are arranged in pairs and seated within the marginal flanges of the top and bottom to form sides to the sign casing. The panels 6 are arranged innermost and are of translucent or frosted glass while the panels 7 are arranged outermost and are transparent. Stenciled panels 8 are arranged between the pairs of panels 6 and 7 and the characters thereof permit light rays from the interior of the sign casing to shine therethrough with the rays diffused by the panels 6. It is to be understood that any number of stenciled panels may be provided for the sign and may be readily changed between the respective panels 6 and 7 for the purpose of varying the display or advertising characters of the sign.

Corner strips 9 constructed of angle iron are received within the marginal flanges 4 of the top and bottom and overlie the adjacent edges of the panels to provide a finished appearance to the sign. The posts 5 cooperate with the marginal flanges in supporting the panels and the posts are provided with cushion elements 10 to form yieldable seats for the panels and prevent breaking thereof should they be subjected to undue strain or pressure. Each post 5 consists of a tube 11, the ends of which are internally screw threaded to receive bolts or like fasteners 12 after passing through the top and bottom thereby providing an efficient construction which will permit the top and bottom to be adjusted or tightened on the panels and also to permit easy removal of the top and bottom when desired or the slackening of the tension of the top and bottom on the panels when it is desired to remove the panels for the purpose of rearranging the stenciled plates.

The bottom 3 is provided with an opening 13 surrounded by an attaching neck or collar 14 which is secured to the bottom by fasteners 15. The collar or neck 14 provides a medium for attaching the sign casing to any suitable support or to a fluid or air dispensing pump and also the collar or neck will permit a circulation of air upwardly through the casing 1. A supporting bridge or strip 16 is connected to the bottom 3 by the fasteners 15 and traverses the opening 13 and carries an electric lamp socket 17 supporting an electric lamp 18 in rear of the panels. The socket 17 is provided with the conventional electric connections so as to furnish electricity to the electric lamp 18. If desired, an ordinary flasher

may be placed in the socket 17 to cause intermittent illumination of the electric lamp.

A bracket or support 19 is carried by the electric lamp and rotatably and adjustably supports a color varying shield 20 surrounding the electric lamp and having its lower end fully open and disposed in alinement with the opening 13 of the casing 1. The upper end of the shield 20 is in the form of a bladed wheel 21, the hub portion carrying a bearing 22 to receive the bracket or support 19. The bladed wheel 21 is for the purpose of causing rotation of the shield 20 about the lamp 18 during the passage of air currents through the shield.

The top 2 is provided with an opening 22' and surrounding said opening is a substantially conical shaped element 23 terminating above the upper end of the shield 20 and has located therein a suction fan 24 driven by an electric motor 25 electrically connected with the socket 17. A neck or collar 26 is secured to the top 2 by fasteners 27 and carries supporting brackets 28 of substantially L-shape. The horizontal portions of the brackets 28 support the electric motor 25, while the vertical portions of the brackets extend out of the neck or collar 26 and support a cover 29.

In operation, when the electric lamp is illuminated the fan 24 is driven by the electric motor 25, drawing air upwardly through the casing 1, the air currents passing upwardly through the shield and act upon the bladed wheel 21, causing the shield to rotate. The shield is of varying colors so that the light rays passing therethrough and through the panels will give the sign an attractive and ornamental appearance as well as efficiently illuminating the characters of the stenciled plates.

The support or frame 19 consists of a rectangular shaped portion 30 arranged vertically and supported by a circular portion 31 carrying resilient jaws 32 adapted to fit over and grip the electric lamp 18. Each jaw is of loop formation and constructed from a single length of material. The material after forming the jaw is bent together and held by an anchoring collar 33. The ends of the material are bent angularly to the jaw and suitably secured to the annular portion 31. The rectangular shaped portion 30 at its upper side carries an internally threaded element 34 to which is threaded a shaft 35 carrying thereon a lock nut 36. The upper end of the shaft is pointed or reduced to form a pintle to fit in the bearing 22 of the color varying shield. By having the shaft 35 threaded to the element 34, permits the shaft to be raised and lowered and locked in any of such positions by the nut 36. The adjustment of the shaft 35 permits the shield to be raised and lowered within the casing 1 and with respect to the lamp 18.

While I have shown and described the preferred embodiment of my invention, it will be understood that minor changes in construction, combination and arrangement of parts may be made without departing from the spirit and scope of my invention, as claimed.

Having described the invention, I claim:

1. A sign comprising a top and a bottom, marginal flanges on the top and bottom to provide seats, advertising panels received by said seats, tubes between the top and bottom to cooperate with the seats in supporting the panels, headed fasteners extending through the top and bottom and threaded in the tubes for detachably and adjustably connecting the tubes to the top and bottom, illuminating means in rear of the panels, and color varying means between the panels and illuminating means.

2. A sign comprising a casing having oppositely arranged openings, advertising panels carried by said casing, illuminating means in the casing, a color varying shield rotatably mounted in the casing between the illuminating means and the panels and rotated by currents of air passing therethrough, and a suction means located adjacent one of the openings within the casing to draw air through the color varying shield, and a substantially conical shaped element carried by the casing and terminating adjacent one end of the shield with the suction means located therein and in communication with the last-named opening.

3. A sign comprising a casing having oppositely arranged openings, advertising panels carried by said casing and illuminating means in said casing between the openings and the panels, an air operated color varying shield betwen the panels and the illuminating means and the openings, and an adjustable support between the shield and the illuminating means and including resilient portions gripping the illuminating means and a rigid element adjustably connected to the resilient portions and having the shield rotatable thereon.

4. A support comprising a frame, resilient jaws carried by said frame to receive and grip an electric lamp, a pintle adjustably connected to the frame for rotatably supporting a shield about the lamp.

JOHN L. BERGGREN.