A. L. SCHWARTZBERG.

DISPLAY SIGN.

APPLICATION FILED DEC. 13, 1915.

1,330,142. Patented Feb. 10, 1920.

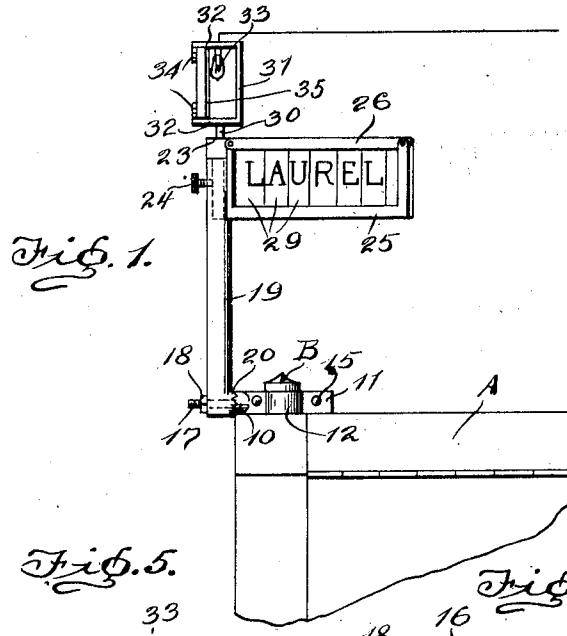

Fig. 1.

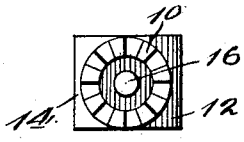

Fig. 6.

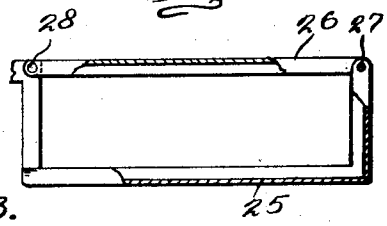

Fig. 4.

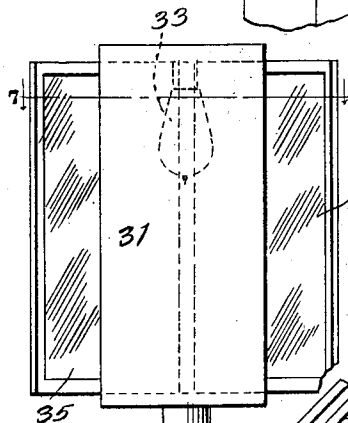

Fig. 5.

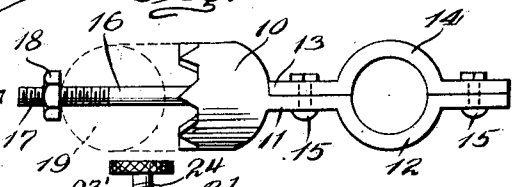

Fig. 3.

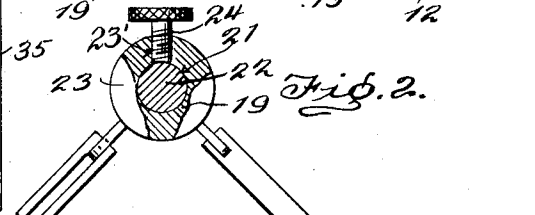

Fig. 2.

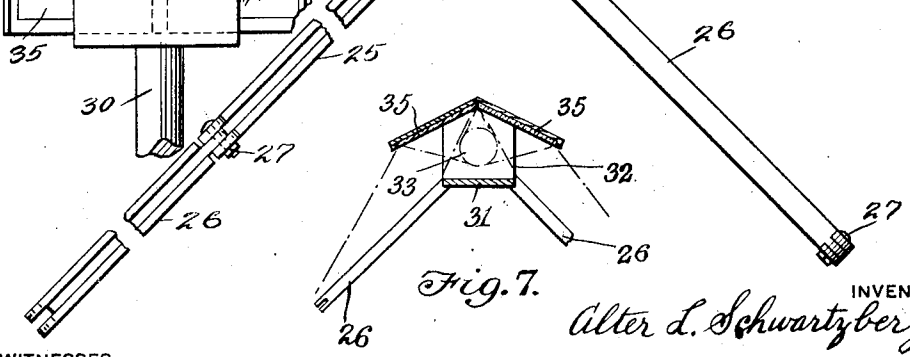

Fig. 7.

WITNESSES

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DISPLAY-SIGN.

1,330,142. Specification of Letters Patent. Patented Feb. 10, 1920.

Application filed December 13, 1915. Serial No. 66,603.

To all whom it may concern:

Be it known that I, ALTER L. SCHWARTZBERG, a citizen of the United States, residing at Shreveport, in the parish of Caddo and State of Louisiana, have invented certain new and useful Improvements in Display-Signs, of which the following is a specification.

My present invention relates to certain new and useful improvements in display signs of that type shown in my copending application, Serial #49,998, filed on or about the 10th day of September, 1915.

The primary object of this invention is to provide a novel device of the above nature that is especially adapted for use in connection with common carriers, such for instance as a jitney bus in order that the pedestrians may readily ascertain the route of the carrier or its destination.

Another object of this invention is to provide a device of this character which is readily adjustable to different positions so as to be susceptible of use under varying conditions.

A further object of the invention is to provide novel illuminating means and means to reflect the light onto the sign whereby the latter may be efficiently used at night.

A further object of my invention is to provide a device of the type in question that is extremely simple in construction, strong and durable, and highly practical from both the standpoint of the manufacturer and the standpoint of the user; and which, it is believed, may be manufactured at a comparatively low cost.

Various other objects and advantages will become apparent during the continuance of the following description.

These objects are accomplished by such means as are shown in their preferred form in the accompanying drawings, described in the following specification and then more specifically pointed out in the appended claims.

In the accompanying drawings, wherein like characters designate like parts throughout the several views:—

Figure 1 is a view in side elevation illustrating my invention in its preferred embodiment, the same being shown upon a suitable support.

Fig. 2 is a fragmentary view of the device showing more clearly the relative position of the signs.

Fig. 3 is a view showing more clearly the means for adjustably supporting the signs.

Fig. 4 is a view in detail of the sign carrier.

Fig. 5 is a view in elevation of the means for reflecting the light onto the signs.

Fig. 6 is a view in detail of a clutch head that is employed.

Fig. 7 is a sectional view on the line 7—7 of Fig. 5 looking in the direction of the arrows.

In the drawings, A designates the supporting structure in connection with which my invention has been illustrated; however it is to be understood that I am not limited to this specific form of supporting structure since the device is readily applicable to the various types of vehicles and common carriers now in use.

In reducing my invention to practice, I provide the support A with a projection or stud B to which the supporting structure of the sign may be attached. The position of the stud B will, of course, vary according to whether it be secured to a horizontal surface or to a vertical surface, for in the latter case, the stud or projection B will extend horizontally from the supporting surface. With a view of providing means to adequately support the sign, I first provide a clutch head 10 (see Fig. 6) which carries an extension 11 that is bent intermediate its ends to form a substantially semi-circular engaging member 12. A member 13 is provided to coöperate with the extension 11 and is also provided with a substantially semi-circular portion 14 which, when brought into registry with the portion 12 of the extension completes a collar or clamp. Any suitable means may be provided to connect the extension 11 and the member 13, however in the drawings I have shown bolts 15 for this purpose. Consequently it will be seen that the clutch head 10 may be securely attached to the projection B through the medium of the said collar and thus held in a rigid position with respect to the support A. The clutch head 10 is further provided with a projecting supporting rod 16 that may be screw threaded as at 17 adjacent its free end to accommodate a fastening member 18. This supporting rod performs a function that will subsequently appear.

I further provide a supporting shaft 19 that is slightly enlarged at its lower end to form a clutch head 20 for engagement with

the clutch head 10 above referred to, and is provided with a through opening to receive the supporting rod 16 whereby it may be held in movable relation to the clutch head 10. By sufficiently unscrewing the fastening member 18 it will be noted that the clutch heads 10 and 20 may be brought into or out of engagement with each other so as to effect the proper adjusting of the shaft 19, and by tightening the member or nut 18, the shank or standard 19 is secured in adjusted relation to the head 20.

At its upper end, the shaft 19 is hollowed out as at 21 (see Fig. 2) whereby it may receive the reduced shank portion 22 of the carrying member 23. The shaft 19 is provided with an aperture 23′ which is screw threaded to receive a set screw 24, the inner end of said set screw normally bearing against the shank 22 so as to retain the latter in an adjusted position. By loosening the set screw 24, the shank 22 may be adjusted either horizontally or vertically or both, the horizontal adjustment being obtained by rotating the shank within the hollow or bore of the shank 19.

Suitable sign carrying members or frames are adapted to be mounted on the carrying member 23, and in the present embodiment each of said sign-carrying members or frames consists of a body or frame 25 having its bottom and side portions formed to be substantially U-shaped in general contour and this U-shaped member is formed of channel bar, or is U-shaped in cross section, thereby forming a channel for receiving the respective sign. A member 26 that is also formed to be substantially U-shaped in cross section, is pivotally connected with the frame 25 as at 27, whereby it may be moved into a position to lock the respective sign in place. The member 26 may be locked in position by means such as indicated by the numeral 28 in Fig. 4, although it will be understood of course that I do not limit myself to this specific form. The sign frames 25 are preferably supported by and extend from the carrying member 23, and are arranged at an angle to one another, and at an angle to the line of travel of the car, so that the signs may be readily ascertained by pedestrians who may be both forwardly and rearwardly of the car as well as those who are positioned laterally thereof. In the drawings, the signs are shown extending substantially at right angles with respect to each other but this angle may be varied in accordance with the existing conditions.

Any type of sign may be mounted in the frame 25 such as to indicate the route of the carrier or its destination. Therefore I do not desire to limit myself to that specific form of sign shown in the drawing. The type of sign shown consists of a plurality of independently detachable plates 29 upon which are arranged suitable symbols or letters and by rearranging the plates, the desired name may be correctly spelled. By properly manipulating the member 26, it will be understood that the several plates 29 may be removed from the same or replaced in position in connection therewith, as the case may be.

With a view of providing means to support the illuminating device and reflect the light onto the respective signs, I provide the carrying member 23 with a stud 30 which in turn carries a supporting bracket 31. In the present embodiment this supporting bracket is constructed to be substantially U-shaped when viewed in side elevation (see Fig. 1), whereby one of the arms 32 thereof may be utilized to support an electric globe or other suitable illuminating device 33. The arms 32 of the bracket are provided at their free ends with retaining members 34 that are designed to have connection with and support mirrors or other reflecting means, such as indicated by the numeral 35. Consequently, the light from the globe 33 or other illuminating means will be reflected onto the signs whereby the latter may be readily ascertained. In the drawings, the mirrors are shown disposed at an angle to one another whereby the light will be concentrated upon the signs; of course it is to be understood that I am not limited to this specific form of disposition since the mirrors may be adjusted materially in accordance with the adjustment of the respective signs.

By adjusting the clutch heads 10 and 20 relative to one another, the device may be clamped to a vertically extending stud, as shown in Fig. 1; and by adjusting said heads differently, the device may be clamped to a stud which extends in a different direction while supporting the shaft 19 in its vertical position. It should be noted that the member 18 of the carrying rod 16 may be properly adjusted so as to retain the above named means against movement and thus prevent the clutch heads from becoming ineffective. When the above mentioned means has been moved to certain adjusted positions such as mentioned above, it may be advisable to adjust the bracket 31 and the mirror 35 also. This may be accomplished by simply loosening the set screw 14 which will in turn release the shank and carrying member so that they may be properly manipulated for effecting the desired adjustment. The sign frames may also be adjusted rotatably with respect to the shaft 19 so that they may be held in an advantageous position at all times.

From the foregoing it will be readily recognized that my improved sign support is, firstly, readily adapted attachable to the carrier, secondly, adjustable so that the signs

may be held in an advantageous position at all times, and thirdly, provision made to properly illuminate the signs at all times. In view of the fact that the advantages and novel features of my invention are readily recognized from the foregoing, it is believed that further detail description is deemed unnecessary.

In reducing my invention to practice I find that the form referred to herein as the most practical and preferred embodiment is the most efficient, but realizing that certain conditions will necessarily vary in concurrence with the adoption of my device, I desire to emphasize the fact that various minor changes in the details of construction and in the proportion of parts may be resorted to when required without sacrificing any of the advantages of my invention as defined in the appended claims.

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

1. A display sign, which comprises a display carrying means composed of hingedly connected sections adapted to receive a sign, one of the sections being provided with a projecting arm forming a support and a mount, a plurality of plates having reflecting surfaces mounted on the supporting arm, such surfaces being angularly disposed relative to each other, illuminating means disposed between the plates so that the light rays therefrom will be reflected onto the sign, and means for supporting and adjustably positioning the display carrying means.

2. A display sign comprising a supporting stud, a clutch head horizontally adjustable on the stud, a shaft having a clutch head on the lower end adapted to engage the clutch head on the stud and provided at the upper end with a socket, means for connecting the two clutch heads so that the shaft may be swung vertically, a sign provided with a shank adapted to be received in the socket on the shaft, means carried by the shaft and adapted to engage the shank for holding the sign in adjusted position, and means carried above the sign for illuminating the same.

In testimony whereof I affix my signature in presence of two witnesses.

ALTER L. SCHWARTZBERG.

Witnesses:
A. M. LEVY,
BEN H. GREENBERG.