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3,529,798

SIGN ASSEMBLY

Filed Aug. 30, 1967

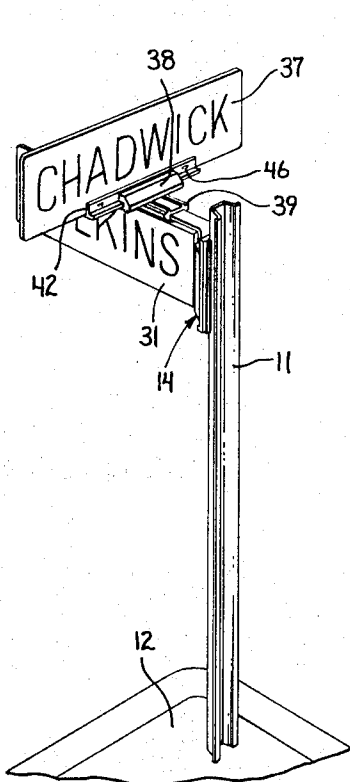


Fig. 1.

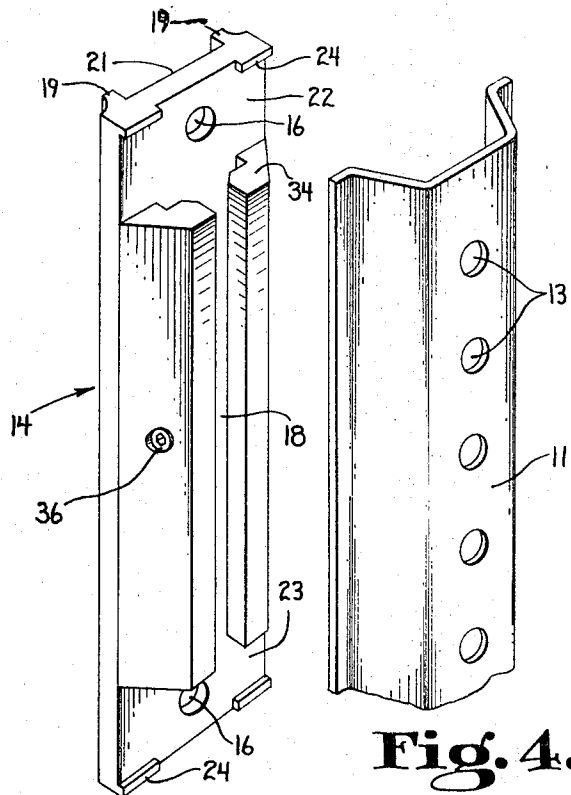


Fig. 3.

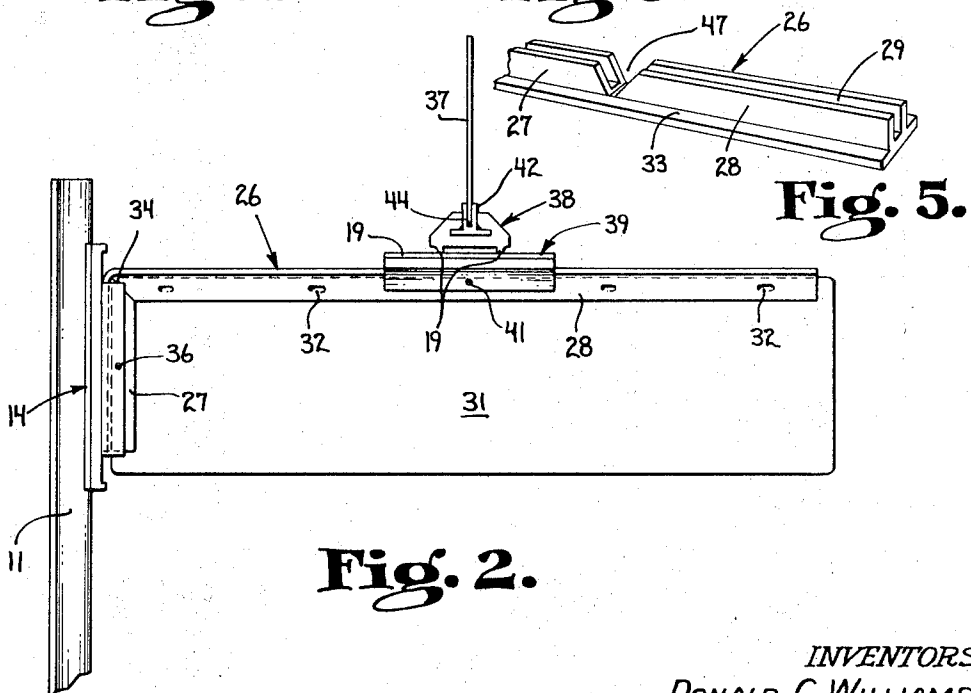


Fig. 2.

Fig. 4.

Fig. 5.

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SIGN ASSEMBLY

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7 Claims

ABSTRACT OF THE DISCLOSURE

A sign assembly including a group of bars cut from two extrusions, one having a T-shaped cross section with grooved web, and the other having a T-slotted cross section. One T-slotted bar is mounted to a post with lag screws received in registering apertures thereof. One T-shaped bar is bent L-shaped to form a bracket member, with the short leg received in the slot of the T-slotted bar and the long leg extending horizontally therefrom and receiving a sign plate in the web groove. A cross mount consists of two T-slotted bars affixed together, the first being received on the horizontal leg of the bracket member and the other receiving another T-shaped bar with a second sign plate in the web groove thereof.

BACKGROUND OF THE INVENTION

Field of the invention

This invention relates generally to display apparatus and more particularly to sign boards and the mounting means therefor.

Description of the prior art

Known prior art signs and brackets are many in number and various in form, and examples may be found in U.S. patents as follows: 2,641,075, June 9, 1953, Saul; 3,158,349, Nov. 24, 1964, Bergstrom; 2,802,291, Aug. 13, 1957, Bach et al.; 3,154,870, Nov. 3, 1964, Hopp et al.; 2,596,582, May 13, 1952, Michel.

The present invention is particularly beneficial in that although it provides a sturdy and durable apparatus for appropriate display of signs, the construction features enabling attainment of this result at a low cost.

SUMMARY

In a typical embodiment of the present invention, a bar is provided with a longitudinally extending slot therein of T-shaped cross section receiving the short leg of an L-shaped bracket member having a T-shaped cross section. The bar is mounted vertically on a post so that the long-leg of the bracket member is disposed horizontally. The web portion of the "T" has a groove therein receiving a sign board. A second bar, similar to the first is receivable on the long leg of the bracket member and has still a third bar affixed thereto but at a 90 degree angle with respect thereto, the slot of the third bar extending horizontally and receiving another member of T-shaped cross section with a groove in the web thereof receiving a second sign board. The three bars may be cut from a single aluminum extrusion, and the bracket member and base member for the second sign board may both be cut from a second aluminum extrusion, the bracket member being thereupon bent to the L-shape. Appropriate apertures and fasteners are provided in the bars for securing the various parts together.

BRIEF DESCRIPTION OF THE DRAWING

FIG. 1 is a perspective view of the sign assembly in a typical environment.

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FIG. 2 is a side elevational view of the embodiment illustrated in FIG. 1.

FIG. 3 is a perspective view of the mounting bar.

FIG. 4 is a fragmentary perspective view of a conventional mounting post.

FIG. 5 is a fragmentary perspective view of the mounting bracket prior to bending.

DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring now to the drawings in detail, FIG. 1 shows a typical embodiment of the sign assembly of this invention used for a street sign unit. In this embodiment a "U-iron" 11 is used as the stand and is received securely in the ground 12. It has a plurality of apertures 13 spaced at approximately one inch intervals vertically therealong. A bar 14 is provided with apertures 16 therein registering with two of the apertures 13 in the post 11, these apertures receiving lag screws or bolts whereby the bar 14 is affixed to the post 11. The bar 14 has a longitudinally extending slot 18 therein which is of T-shaped cross section. The bar also has a pair of longitudinally extending ribs 19 on the backside thereof opposite the slot 18. These ribs together with the slight channel 21 formed therebetween facilitate the mounting of this bar to posts of various surface shapes, including not only the U-iron illustrated but also circular posts. To facilitate installation of the bar to non-apertured posts, flats are provided at 22 and 23 as shown, at the opposite ends of the slot, to receive metal straps both around the bar and around the pole for mounting purposes. The transverse ribs 24 assist in retaining the straps on the bar and the apertures 16 can also be used with registering apertures in the straps for this purpose if desired.

A bracket member 26 is made of an aluminum extrusion having a T-shaped cross section, the bracket being bent in the form of an "L" with the short leg 27 and long leg 28 both retaining the characteristic T-shaped cross section. In the "web" of the extrusion there is provided a groove 29 extending throughout the length thereof to receive a sign board or plate 31, which may also be aluminum or some other suitable material. The sign board is secured to the bracket by lanced or staked construction as at 32 wherein the web and sign plate are secured together at one or both sides of the groove 29 in both the horizontally and vertically extending legs of the bracket. The vertically extending leg is then received in the slot 18 of the mounting bar 14 and, if desired, can be allowed to rest therein with the flange 33 of the bracket member resting upon the upper marginal edge 34 defining the upper end of the slot 18 in the bar 14. Although the bracket 26 is shown as a hanger for the sign and inserted in the upper end of the slot 18, it can also be inserted upwardly into slot 18 and, in that event, can be secured thereto by a set screw 36 threadedly received in the bar 14 and engaging the short leg 27 of the bracket member. The set screw can also be used, of course, when the bracket member is inserted from the top.

To mount the second sign board 37, a "cross" consisting of two bars 38 and 39 is provided from the same aluminum extrusion as the bar 14. These two are welded together with their channel sides facing each other, the weld points being at the four points of contact between the ribs 19 of each and the corresponding ribs of the other. The lower component 39 of this cross is received on the horizontal leg 28 of the bracket member and is secured thereto by the set screw 41. A member 42 cut from the same extrusion as the bracket member is received in the slot of the bar 38 and affixed thereto by the set screw 43. Member 42 already has the groove 44 therein receiving a lower marginal portion of the sign plate 37 which is affixed thereto by the lancing or staking at 46, for example.

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So it is that the complete sign assembly is constructed of comparatively few parts at nominal expense, and yet serves as a sturdy and durable unit. Because of the use of extrusions as described, it is a simple matter to make the various members any length desired to accommodate signs of different sizes. Moreover, if it is known that the bar 14 will not need to be mounted by straps to any posts, the transverse slotting to provide the flats 22 and 23 at the ends of the slot 18 can be omitted so that this member also will be virtually identical in this respect to the members 38 and 39. In fact, there are instances where the members 14, 38, and 39 can be identical as are members 26 and 42, except for the bend in member 26 and a notch in the web at 47 to facilitate bending. This notch, in the straight extrusion, can typically be a notch of 90 degree included angle and a width at the flange of approximately one-eighth inch, for example. The dimensions will vary of course, depending upon the size of stock used.

While the invention has been disclosed and described in some detail in the drawings and foregoing description, they are to be considered as illustrative and not restrictive in character, as other modification may readily suggest themselves to persons skilled in this art and within the broad scope of the invention, reference being made to the appended claims.

The invention claimed is:

1. In a sign assembly, the combination comprising: mounting means attachable to a support for locating a sign in space;

30 bracket means mounted on said mounting means and having a portion thereon for attachment of a sign board thereto, said bracket means including a bracket member formed of a single bar of generally T-shaped cross section, with the web portion thereof having a longitudinally extending groove therein for receiving a marginal portion of a sign board therein, said bar being bent in the plane of said attachment portion and thereby providing two legs, one of said legs being received in said mounting means said mounting means having receiver means of cross section at vertically spaced points accommodating the T-shaped cross section of said bar and precluding rotation of said bar in said mounting means.

2. The combination of claim 1 wherein: the angle of the bend in said bar is substantially ninety degrees whereby said bracket member is substantially L-shaped, there being only said two legs in said bracket member.

3. The combination of claim 1 wherein: said mounting means has a vertically extending slot therein of T-shaped cross section receiving a vertically extending one of said legs of said bracket member, the other of said legs being thereupon disposed

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horizontally, said vertically extending leg being slidable vertically into said slot.

4. The combination of claim 3 wherein the flange of said bracket member bar is movable into abutting engagement with an upper marginal edge of said mounting means upon sliding of said vertically extending leg downwardly to a certain extent into said slot, to thereupon support said bracket member on said edge.

5. The combination of claim 3 and further comprising: second mounting means having a T-shaped slot therein received on the horizontally extending leg of said bracket member;

third mounting means having a T-shaped slot therein and affixed to said second mounting means with the slot therein extending horizontally and opening upwardly;

a second bar having a T-shaped cross section identical to that of said bracket member bar and received in the slot of said third mounting means, with the groove in a said second bar opening upwardly and adapted to receive a marginal portion of a second sign board therein.

6. The combination of claim 5 and further comprising: a set screw in each of said mounting means and affixing each to the respective bar portion received thereon;

a first sign board having marginal portions received in the said groove in the horizontal and vertical legs of said bracket member, and affixed thereto;

and a second sign board having a marginal portion received in the said groove in said second bar and affixed thereto.

7. The combination of claim 5 wherein:

said bars are cut from a single piece of stock of T-shaped cross section, and said first, second, and third mounting means are bars of identical cross sectional shape and cut from a single piece of stock of T-slotted cross section.

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40—145; 248—125, 224