June 28, 1960 H. C. PFAFF, JR., ET AL 2,942,366

INCREMENT ASSEMBLY SHEET SIGN

Filed April 25, 1958 2 Sheets-Sheet 1

Fig. 1.

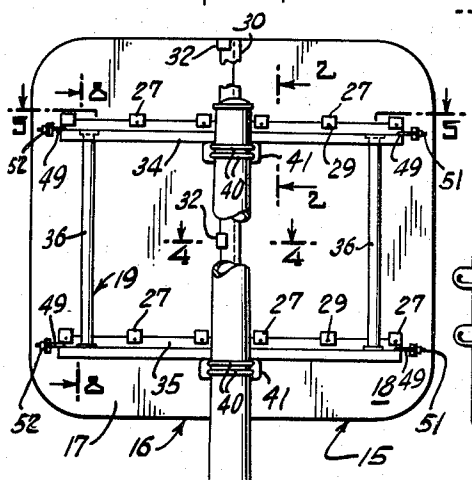


Fig. 2.

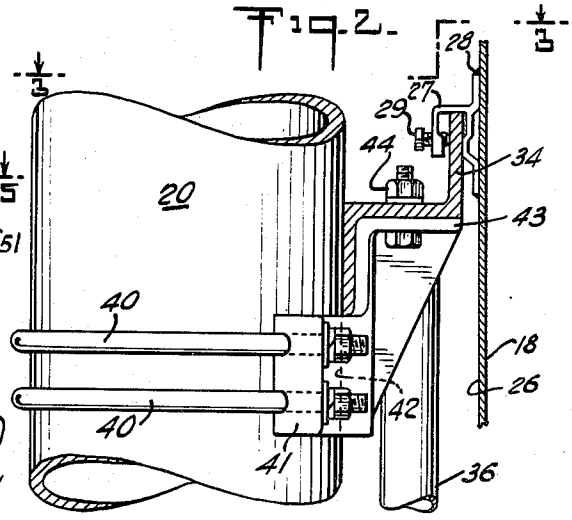


Fig. 3.

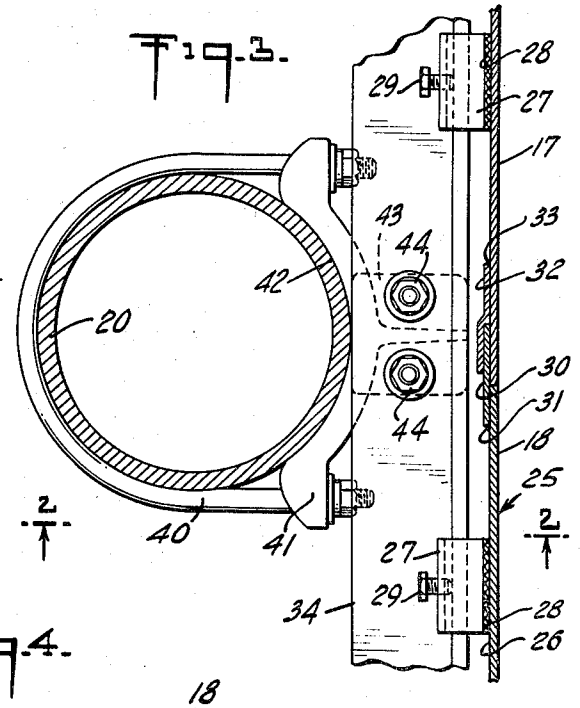
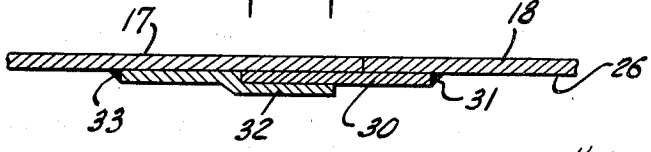


Fig. 4.



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Fig. 5.

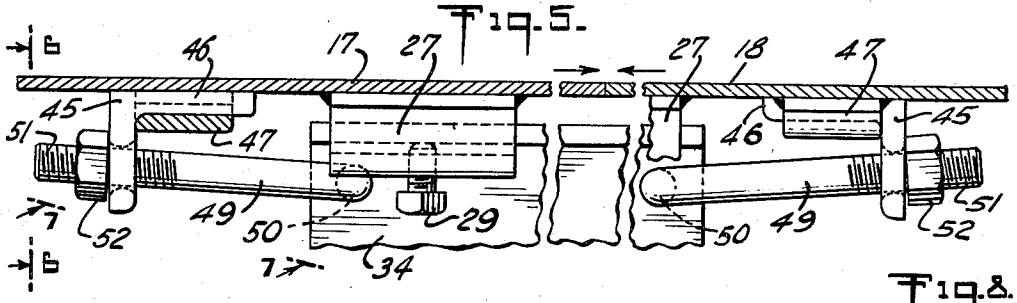


Fig. 6.

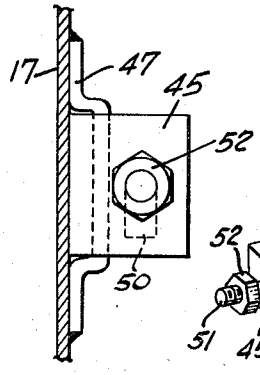


Fig. 7.

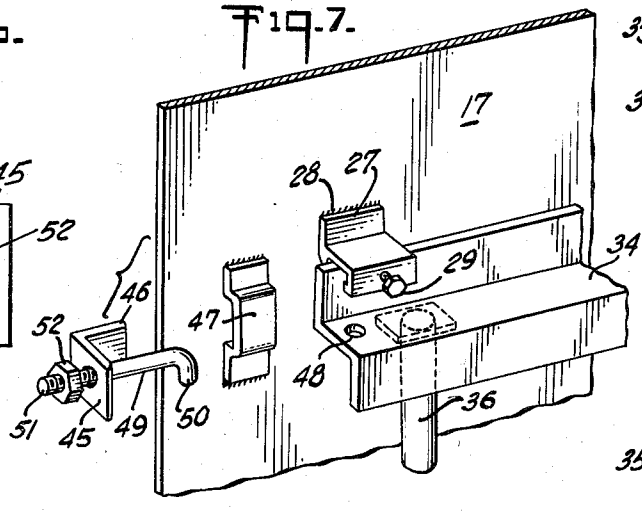
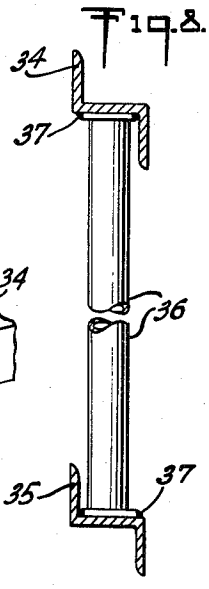


Fig. 8.



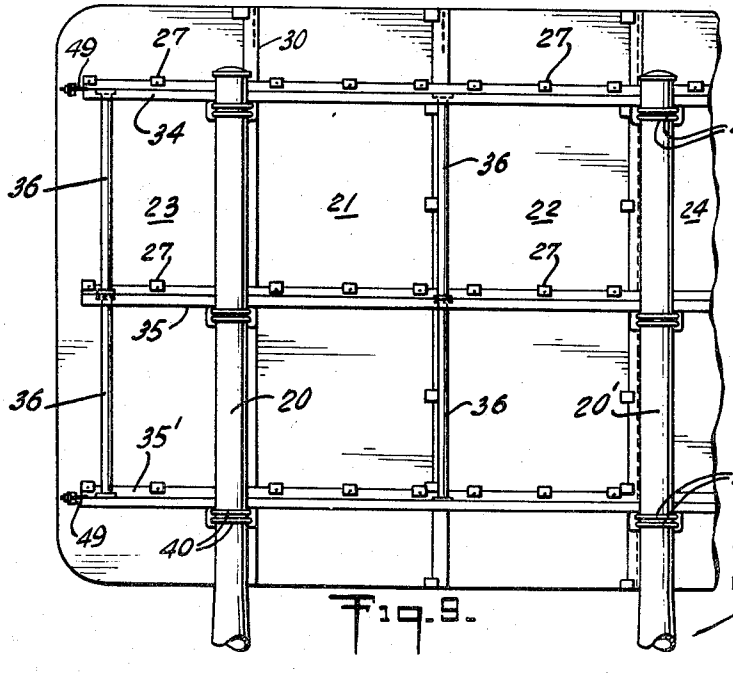
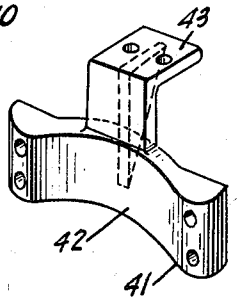


Fig. 9.

Fig. 10.



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INCREMENT ASSEMBLY SHEET SIGN

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Filed Apr. 25, 1958, Ser. No. 731,022

6 Claims. (Cl. 40—125)

This invention relates to a sign device which may be fabricated of parts manufactured as units adapted to be assembled in multiples to conform to the requirements of the installation.

The sign of the invention presents a display face of the combined surface areas of panels of which the sign is formed, with no hardware or protuberances on the display face. Individual panels, assembled to form the sign, are provided at their opposite or rear faces with means for drawing and securing them together in aligned abutting edgewise relation.

Pursuant to the invention, the panels and assembly devices of the sign may be fabricated as units adapted to be readily assembled at the point of installation and, when so assembled, provide an inherently rigid, permanent sign structure of highly practical and neat appearance, well adapted to withstand the elements including extreme wind loads.

Examples of practical devices embodying the invention are described below and in the accompanying drawings; the invention is not limited thereto, but covers all other forms coming within the scope or purview of the disclosure herein.

Fig. 1 is a rear elevational, partly fragmentary view of an increment sign embodying the invention, shown secured to a post on a supporting surface, pursuant to the invention, the supporting surface being shown fragmentarily,

Fig. 2 is an enlarged fragmentary vertical sectional view taken at line 2—2 of Fig. 1,

Fig. 3 is an enlarged horizontal fragmentary sectional view taken at line 3—3 of Fig. 2,

Fig. 4 is an enlarged fragmentary horizontal sectional view taken at line 4—4 of Fig. 1, showing a means for securing sign panels in edgewise aligned abutment pursuant to the invention,

Fig. 5 is an enlarged fragmentary horizontal sectional view taken at line 5—5 of Fig. 1, showing means for drawing the panels together in edgewise aligned abutment pursuant to the invention,

Fig. 6 is an enlarged fragmentary vertical sectional view taken at line 6—6 of Fig. 5,

Fig. 7 is an exploded perspective view taken at line 7—7 of Fig. 5,

Fig. 8 is an enlarged broken vertical sectional view taken at line 8—8 of Fig. 1,

Fig. 9 is a fragmentary rear elevational view of an increment sheet sign embodying the invention, made of a larger number of panels than that shown in Fig. 1, and

Fig. 10 is a fragmentary perspective view of a frame for securing the sign to a post.

Similar reference characters indicate similar parts throughout the several views. As shown in the drawings, the device of this invention comprises a sign 15 (Fig. 1) having an assembly sheet panel portion 16 consisting of a plurality of panels 17, 18 adapted to be secured to a frame 19 which in turn may be secured to a post 20 on a supporting surface S. Other intermediate panels such

as 21, 22, Fig. 9, may be added to the panels 17, 18; the panels in Fig. 9 are vertically elongated to provide a sign of the desired longitudinal and vertical dimensions. The sign of Fig. 1 may be provided with intermediate panels equal to the height of the end panels 17, 18, if desired, pursuant to the invention as herein described; likewise, a sign such as shown in Fig. 9 may be fabricated of simply the end panels 23, 24 without the intermediate panels, utilizing the features of the invention.

As above stated, the sign fabricated in accordance with the invention comprises panels 17, 18, assembled in edgewise relation, with no hardware or protuberances on the front face 25 of the sign (Fig. 3) which is defined by the combined surface areas of the panels of which the sign is formed, so that said entire face area 25 may be utilized for display purposes.

Means for securing the panels together in edgewise abutting relation are disposed at the opposite faces 26 of the sign and may comprise, as shown in the drawings, clips 27 (Fig. 2) welded thereto as at 28 or otherwise secured thereto. Said clips 27 are disposed at predetermined spaced points of each panel so that the clips will align when the panels are disposed in edgewise aligned abutment. Said clips 27 (Fig. 1) are adapted to engage a frame 19 (in turn secured to the post 20) by means such as bolts 29 (Figs. 2 and 3) engaging the clips and frame. Complementary means provided on the panels for maintaining them in their said edgewise aligned abutment registry (Figs. 3 and 4) may comprise an elongated strip 30 welded to one panel as at 31 and one or more fingers 32 (Figs. 1 and 4) secured to the other panel as at 33 and offset to receive the strip 30, to thereby align the panels in said edgewise abutting relation.

The frame 19 may be formed of similar frace sections, each frame section being secured to a panel and comprising rails 34, 35 (Fig. 1) and means such as posts 36 welded to the rails 34, 35 as at 37, Fig. 8. Suitable means may engage the frame and post to secure the frame to the post such as for example, U-bolts 40 (Figs. 1, 2 and 3) positioned over the post 20 and secured to a frame 41 (Figs. 2, 3 and 10) having an arcuate portion 42 (Fig. 10) to receive the post and an apertured flange portion 43 which may be secured by any desired fastening means 44, Fig. 2, to the rail 35 of the frame 19.

Pursuant to the invention, means are provided on the panel engaging the rails for drawing the panels together in said edgewise abutment. Thus the parts above mentioned may be initially aligned and assembled to the approximate position shown in Fig. 1 and then the panels drawn together to tight edgewise abutment in final position by means such as shown in Figs. 5, 6 and 7 comprising apertured plates 45 provided with tongue portions 46 received in open socket members 47, the latter being secured to the panels (Figs. 5 and 6), at points spaced apart a greater distance than the length of the rails. The latter are apertured (48, Fig. 7) adjacent their ends and link means 49 pass through the apertures 48 of frame rails 34, 35 and the apertures of the plates 45 for drawing the plates (and thereby the panels to which the plates are secured) together. To that end the means 49 may comprise L-shaped members for each plate and rail end, having one leg 50 to pass through the aperture of one of said (plate or rail) members and being threaded (51, Fig. 7) on the opposite leg to be passed through the aperture of the other of said members, so that a nut member 52 may be threaded to the threaded leg which is passed through the aperture of the last mentioned member to move axially thereon and against said last mentioned member to draw the plates 45 (and thereby the panels to which the plates are secured) together. In the sign of Fig. 9 a second post 20' is shown to which the panels are secured by the bolts 40 as above described

in connection with Fig. 1. Panels of greater height than those of Fig. 1 may be provided with additional rails 35' as shown in Fig. 9, the other parts being substantially identical and being correspondingly numbered.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is:

1. An increment assembly sheet sign to be secured to a post comprising a plurality of flat panels adapted to be positioned in edgewise aligned abutment to define a planar sign surface of the combined surface areas of said panels, with no projections at the display faces of said panels, plate members secured to the opposite faces of the panels, in spaced apart relation and remote from the panel edges to be so positioned in abutment, a rail of less length than the distance between the plate members secured to the panel, and adjustable means engaging said plate members and rail for axially moving the plate members toward the rail and thereby axially drawing the panels into tight edgewise abutment.

2. In an increment sign as set forth in claim 1, open socket members secured to said opposite faces of the panels, said plate members engaging said socket members to thereby secure the plate members to said opposite faces of the panels.

3. An increment assembly sheet sign to be secured to a post comprising a plurality of flat panels adapted to be positioned in edgewise aligned abutment to define a planar sign display surface of the combined surface areas of said panels, with no projections at the display faces of said panels, a rail adapted to be secured to the post, apertured plates secured to the faces of the panels opposite their display faces, spaced apart a greater distance than the length of the rail, said rail being provided with apertured portions, and means passing through the apertures of the plates and rail for drawing the plates, and the panels to which the plates are secured, together.

4. In an increment sign as set forth in claim 3, an elongated flat strip secured to one of the panels adjacent the abutting edge thereof and extending therebeyond and a finger secured along the edge of the panel abutting said one of the panels and defining, with said panel edge along which it is so secured, a channel opening toward the flat strip and receiving the flat strip slidably therein when the panels are disposed in abutment, to align the panels.

5. In an increment sign as set forth in claim 3, said means passing through the apertures of the plates and rail comprising an L-shaped member for each plate and rail end, having one leg to be passed through the aperture of one of said plate and rail members and being threaded on the opposite leg to be passed through the aperture of the other of said members, so that a nut may be threaded to the threaded leg passed through the aperture of the last mentioned member for so drawing the plates and thereby the panels to which the plates are secured, together.

6. In an increment sign as set forth in claim 3, a bracket to be secured at one end to the rail, and an arcuate extension on the other end of said bracket with which post clamping means engage for securing the sign to the post.

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