

F. W. RUBY.

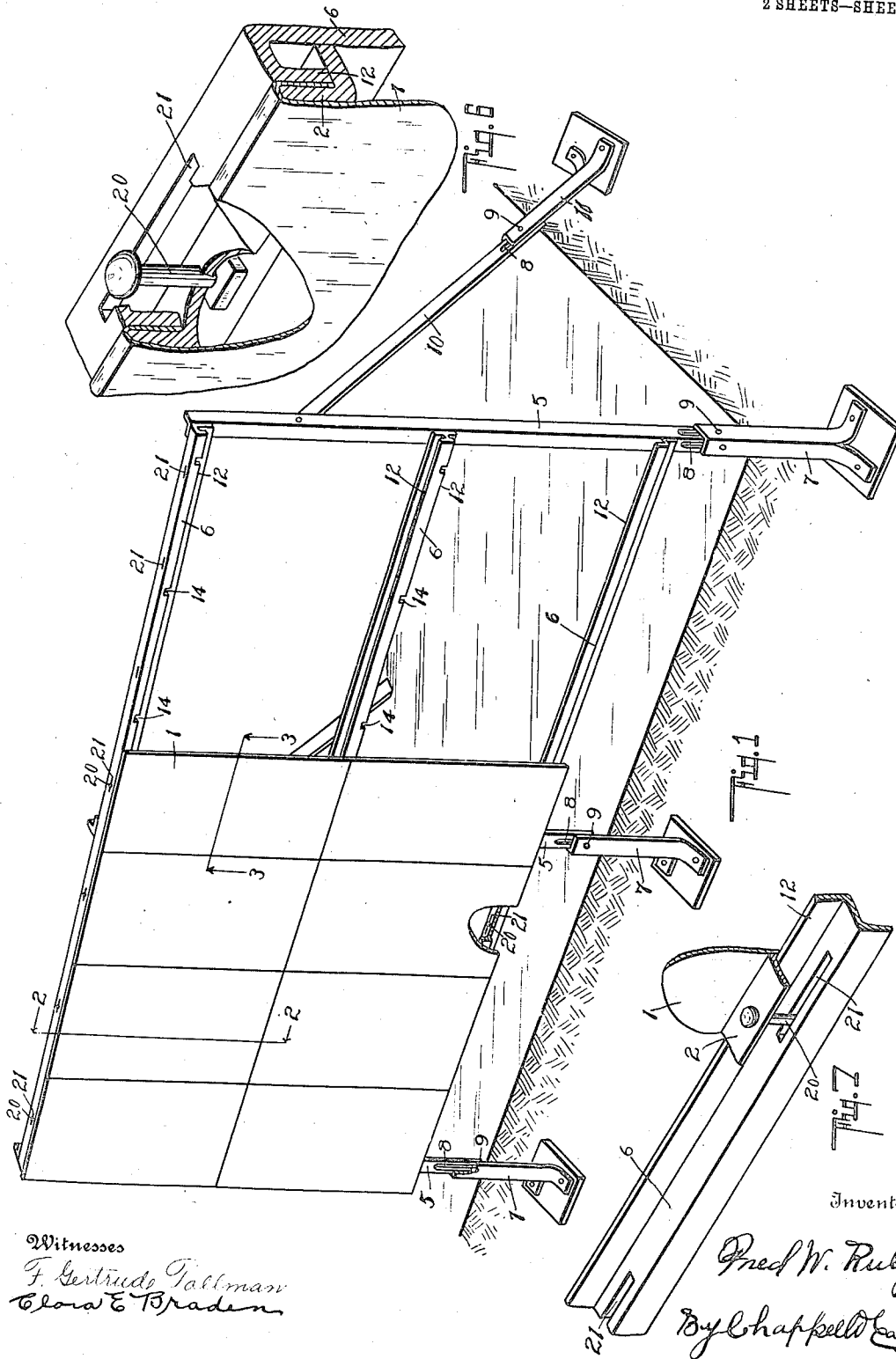
SIGN.

APPLICATION FILED APR. 26, 1909.

Patented May 10, 1910.

2 SHEETS—SHEET 1.

957,259.



Witnesses  
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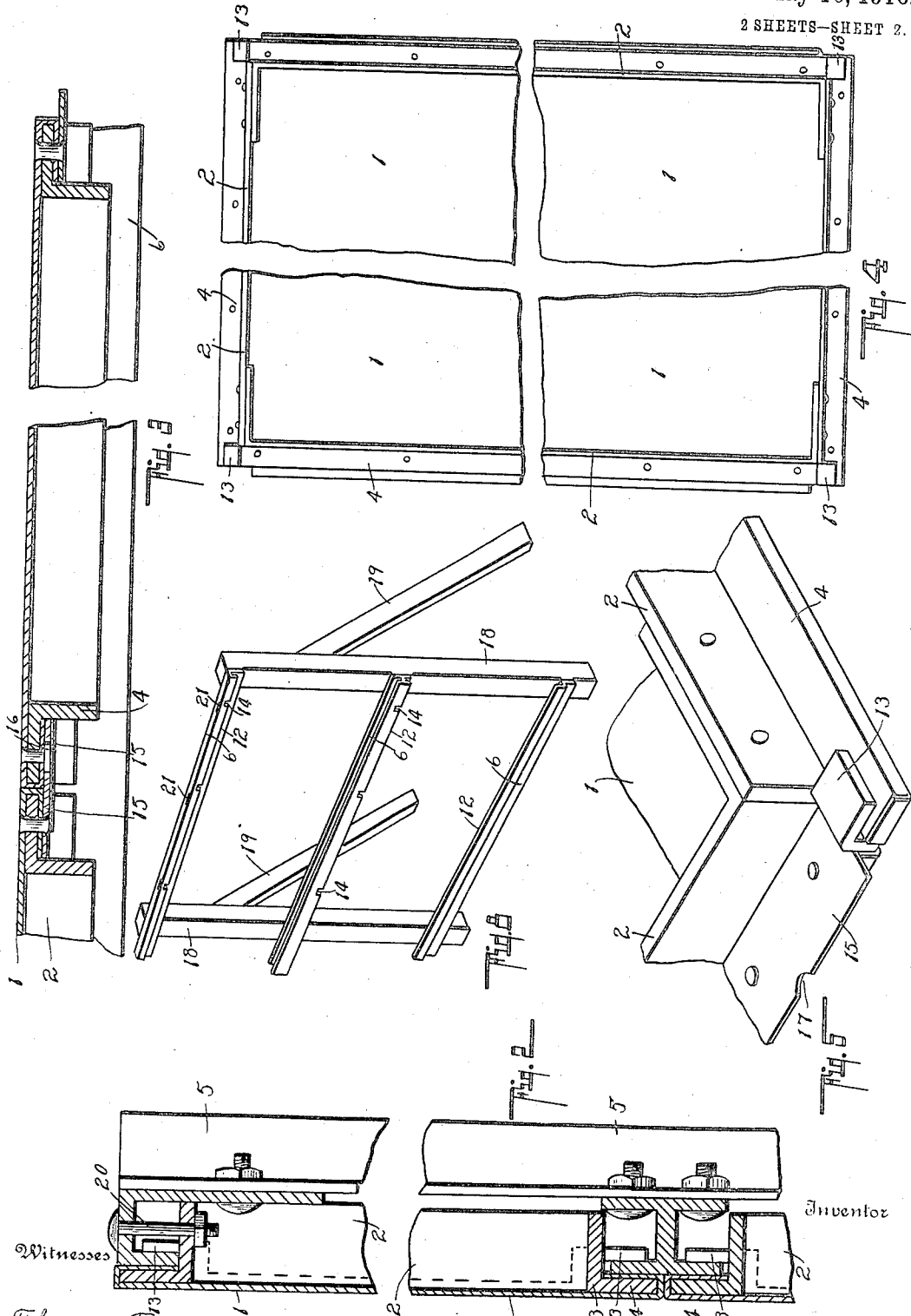
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2 SHEETS—SHEET 2.



Witnesses

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# UNITED STATES PATENT OFFICE.

FREDERICK W. RUBY, OF JACKSON, MICHIGAN, ASSIGNOR TO RUBY MANUFACTURING COMPANY, OF JACKSON, MICHIGAN.

SIGN.

957,259.

Specification of Letters Patent. Patented May 10, 1910.

Application filed April 26, 1909. Serial No. 492,124.

To all whom it may concern:

Be it known that I, FREDERICK W. RUBY, a citizen of the United States, residing at the city of Jackson, county of Jackson, State of Michigan, have invented certain new and useful Improvements in Signs, of which the following is a specification.

This invention relates to improvements in signs.

10 The main objects of this invention are: First, to provide an improved construction of sign of the bill or sign-board type, in which the advertisements or signs can be prepared in a shop and easily and quickly set up or placed upon the supporting frame. 15 Second, to provide an improved sign in which the sign panels can be quickly changed, as may be desired. Third, to provide an improved sign of the sign or bill-board type, which is made up of a plurality of panels forming different, or parts of the same advertisement, which has, when assembled, the appearance of a unitary structure. Fourth, to provide an improved sign 20 of the sign or bill-board type, which is economical and durable in structure.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

30 I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

35 A structure embodying the features of my invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which:

40 Figure 1 is a perspective of a structure embodying the features of my invention, partially complete, portions being broken away to show structural details. Fig. 2 is an enlarged detail vertical section, taken on a line corresponding to line 2—2 of Fig. 1. 45 Fig. 3 is an enlarged detail horizontal section, taken on a line corresponding to line 3—3 of Fig. 1. Fig. 4 is an enlarged detail inverted view of one of the panels of my improved sign. Fig. 5 is an enlarged inverted detail perspective of one of the panels. Fig. 50 Fig. 6 is an enlarged detail perspective showing the securing means for the panels to the top frame rail. Fig. 7 is an enlarged detail perspective showing the securing means for one of the top panels to the bottom frame 55

60 rail. Fig. 8 is a detail perspective of a modified form of the supporting frame.

In the drawing, similar reference characters refer to similar parts throughout the several views, and the sectional views are taken looking in the direction of the little arrows at the ends of the section lines.

Referring to the drawing, the panels 1 are formed of sheet metal and are preferably provided with rectangular frames 2. 65 These frames are preferably formed of angle iron, the ends of the side pieces being preferably turned inwardly and the end pieces lapped upon and riveted thereto, see Fig. 4. These frames 2 are preferably arranged with the angles 3 of the angle bars, of which they are formed, inwardly, the edges of the panels being folded over the outer legs 4 of the angle bars and secured thereon. This rigidly supports the panels 75 so that they can be handled without liability of their being bent or distorted, and they are also effectively supported when assembled in the supporting frame. A further advantage of this method of securing 80 the panels to the frame is that the buckle is taken out of the panels as they are secured upon the frame.

The supporting frame preferably consists of the upright members 5 and the horizontally-arranged members 6. The uprights 5 are preferably supported on the bases 7 which are adapted to be set into the ground, the uprights being provided with slots 8 to receive the bolts 9, so that the supporting 90 frame can be leveled without regard to the setting of the bases. The braces 10 are also preferably adjustably secured to their bases 11 by means of the bolt and slot connection. These frame members are preferably formed 95 of angle iron, as illustrated, the upper members being formed of a U-shaped, the bottom of a Z-shaped, while the intermediate member is formed of a T-shaped angle bar. This provides pairs of facing supporting 100 members 12 adapted to receive the attaching members 13 of the panels. These attaching members are preferably formed by extending and offsetting the outer legs of the frame pieces. 105

The supporting members 12 are preferably notched at 14, the notches being spaced to correspond with the attaching members 13 of the panels, so that the lower attaching members may be engaged over the lower 110

supporting member, the upper attaching members brought opposite the notches 14, and thus engaged with the upper attaching member of the pair when the panels can be slipped along on the supports and are supported and held in position thereby.

The supporting members 12 are preferably so arranged that the lower edges of the upper panels abut and rest upon the upper edge of the panel below. This secures a comparatively tight joint between the upper and lower panels. The side edges of the panels are preferably provided with interlapping joint strips 15, the joint strip on one edge being spaced by suitable members, as 16, from the panel frame on which it is supported so that it is adapted to receive the joint strip of the other member. See Fig. 3. These strips form tight joints between the panels and also assist in holding them in place and assist in preventing their buckling or otherwise getting out of alignment. Notches 17 are provided in the edge of one of the strips to receive the spacing members 16. These strips are preferably riveted to the outer legs of the frame piece, the rivets also serving to assist in securing the panels upon their frames.

In the modified construction shown in Fig. 8, wood posts or uprights 18 are provided for the horizontal frame pieces 6. The braces 19 are also of wood. The panels are preferably secured upon the frame by means of the bolts 20, which are arranged through the panel frame and the slots 21 in the supporting frame pieces 6. The slots avoid the necessity of accurately fitting the parts. After the panels are put in place, these retaining bolts are inserted and the panels are effectively secured. While the notches 14 are of considerable convenience, the panels can be attached to the frame by slipping them on from the ends of the supporting members.

My improved sign, when completed, has the appearance of a unitary structure. The several panels are adapted to receive parts of a single advertisement, or each panel may contain a complete advertisement. The advertisements can be placed thereon either in the form of bills, posters or the like, or they may be painted directly upon the panel. This work can be done in a shop and set up and placed upon the supporting frames, as desired. The advantage of this will be obvious, as fresh work is not exposed to the weather, and, as it can be done in the shop, all the conveniences can be had for the workman and shipped or carted to the place of display. When the work is to be done on the ground where the sign is to be set up, the panels can be placed on the lower supports while the workman is at work thereon and shifted to the upper supports when completed.

In practice I preferably use angle iron for

one half the panel frames, having its outer leg longer, so that the panels may be nested in pairs for storage or shipping, thus economizing on space.

I have illustrated and described my improved sign in detail in the form preferred by me on account of the structural simplicity and economy. I am aware, however, that it is capable of considerable variation in structural details without departing from my invention, but as these variations will occur to those skilled in the art to which this invention relates, I have not attempted to illustrate or describe the same herein.

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

1. In a sign, the combination of a plurality of panels formed of sheet metal; frames for said panels formed of angle iron arranged on the sides of the panels with the angle inwardly, the edges of the panels being folded over the edges of the frames, the ends of the outer arms of the said angle iron side pieces of the frames being offset rearwardly to form attaching members; interlapping joint strips secured on the inside of the outer arms of the side pieces of said panel frames, the joint strip on one edge of each panel being spaced from the frame to receive the joint strip of the adjacent panel when the edges of the panels are arranged to abut one against another; a supporting frame comprising pairs of facing supporting members adapted to receive the attaching members of said panels, one member of each pair of said supporting members being provided with notches spaced to receive the said attaching members of said panels and with longitudinal slots, said supporting members being arranged so that the lower edge of one panel abuts and rests upon the upper edge of the panel below; and panel retaining bolts through said panel frames engaging said slots in said supporting members.

2. In a sign, the combination of a plurality of panels formed of sheet metal; frames for said panels formed of angle iron arranged on the rear sides of the panels with the angles inwardly, the edges of the panels being folded over the edges of the frame, the ends of the outer arms of the said angle iron side pieces of the frames being offset rearwardly to form attaching members; a supporting frame comprising pairs of facing supporting members adapted to receive the attaching members of said panels, one member of each pair of said supporting members being provided with notches spaced to receive the said attaching members of said panels and with longitudinal slots; and panel retaining bolts for said panels arranged in said slots in said supporting member.

3. In a sign, the combination of a plu-

5 rality of panels formed of sheet metal;  
 frames for said panels formed of angle iron  
 arranged on the rear sides of the panels with  
 the angles inwardly, the edges of the panels  
 being folded over the edges of the frame,  
 10 the ends of the outer arms of the said angle  
 iron side pieces of the frames being offset  
 rearwardly to form attaching members; inter-  
 overlapping joint strips secured on the in-  
 side of the outer arms of the side pieces  
 15 of said panel frames, the joint strips on one  
 edge of each panel being spaced from the  
 frame to receive the joint strip of the ad-  
 jacent panel when the edges of the panels  
 are arranged to abut one against another;  
 and a supporting frame comprising pairs  
 of facing supporting members adapted to  
 20 receive the attaching members of said panels,  
 one member of each pair of said supporting  
 members being provided with notches  
 spaced to receive the said attaching members  
 of said panels, said supporting members be-  
 ing arranged so that the lower edge of one  
 panel abuts and rests upon the upper edge  
 25 of the panel below.

4. In a sign, the combination of a plu-  
 rality of panels formed of sheet metal;  
 frames for said panels formed of angle iron  
 arranged on the rear sides of the panels  
 with the angles inwardly, the edges of the  
 30 panels being folded over the edges of the  
 frames, the ends of the outer arms of the  
 said angle iron side pieces of the frames be-  
 ing offset rearwardly to form attaching  
 members; and a supporting frame compris-  
 ing pairs of facing supporting members  
 adapted to receive the attaching members of  
 said panels, one member of each pair of said  
 supporting members being provided with  
 40 notches spaced to receive the said attaching  
 members of said panels.

5. In a sign, the combination of a plu-  
 rality of panels formed of sheet metal;  
 frames for said panels formed of angle iron  
 arranged on the rear sides of the angles  
 with the angles inwardly, the edges of the  
 45 panels being folded over the edges of the  
 frame, the ends of the outer arms of the said  
 angle iron side pieces of the frames being off-  
 set rearwardly to form attaching members;  
 interlapping joint strips secured on the in-  
 side of the outer arms of the side pieces of  
 said panel frames, the joint strips on one  
 edge of each panel being spaced from the  
 50 frame to receive the joint strip of the adja-  
 cent panel when the edges of the panels are  
 arranged to abut one against another; a sup-  
 porting frame comprising pairs of facing  
 supporting members adapted to receive the  
 60 attaching members of said panels, said sup-  
 porting members being arranged so that the  
 lower edge of one panel abuts and rests upon  
 the upper edge of the panel below; and  
 panel retaining bolts arranged through said  
 65 supporting members.

6. In a sign, the combination of a plurality  
 of panels formed of sheet metal; frames for  
 said panels formed of angle iron arranged on  
 the rear sides of the panels with the angles  
 inwardly, the edges of the panels being fold-  
 ed over the edges of the frame, the ends of  
 70 the outer arms of the said angle iron side  
 pieces of the frames being offset rearwardly  
 to form attaching members; a supporting  
 frame comprising pairs of facing support-  
 ing members adapted to receive the attach-  
 ing members of said panels; and panel re-  
 taining bolts.

7. In a sign, the combination of a plural-  
 ity of panels formed of sheet metal; frames  
 for said panels formed of angle iron ar-  
 ranged on the rear sides of the panels with  
 the angles inwardly, the edges of the panels  
 being folded over the edges of the frame, the  
 ends of the outer arms of the said angle iron  
 side pieces of the frames being offset rear-  
 wardly to form attaching members; inter-  
 overlapping joint strips secured on the inside of  
 the outer arms of the side pieces of said  
 panel frames, the joint strips on one edge of  
 each panel being spaced from the frame to  
 receive the joint strip of the adjacent panel  
 when the edges of the panels are arranged  
 to abut one against another; and a support-  
 ing frame comprising pairs of facing sup-  
 porting members adapted to receive the at-  
 95 taching members of said panels, said sup-  
 porting members being arranged so that the  
 lower edge of one panel abuts and rests upon  
 the upper edge of the panel below.

8. In a sign, the combination of a plural-  
 ity of panels formed of sheet metal; frames  
 for said panels formed of angle iron ar-  
 ranged on the rear sides of the panels with  
 the angles inwardly, the edges of the panels  
 being folded over the edges of the frame, the  
 ends of the outer arms of the said angle iron  
 side pieces of the frames being offset rear-  
 wardly to form attaching members; and a  
 supporting frame comprising pairs of fac-  
 ing supporting members adapted to receive  
 the attaching members of said panels.

9. In a sign, the combination of a plural-  
 ity of panels formed of sheet metal; frames  
 for said panels; attaching members there-  
 for; and a supporting frame comprising  
 pairs of facing supporting members adapted  
 to receive the attaching members of said  
 panels, one member of each pair of said sup-  
 porting members being provided with  
 120 notches spaced to receive the said attaching  
 members of said panels.

10. In a sign, the combination of a plu-  
 rality of panels formed of sheet metal;  
 frames for said panels; attaching members  
 therefor; and a supporting frame compris-  
 ing pairs of facing supporting members  
 adapted to receive the attaching members of  
 said panels.

11. In a sign, the combination of a plural- 130

ity of panels; attaching members therefor; interlapping joint strips arranged at the edges of said panels; and a supporting frame comprising pairs of facing supporting members adapted to receive the attaching members of said panels, said supporting members being arranged so that the lower edge of one panel abuts the upper edge of the panel below.

12. In a sign, the combination of a plurality of panels; attaching members therefor; and a supporting frame comprising pairs of facing supporting members adapted to receive the attaching members of said panels, said supporting members being arranged so that the lower edge of one panel abuts the upper edge of the panel below.

13. In a sign, the combination of a plurality of panels having attaching members thereon; a supporting frame comprising pairs of facing supporting members adapted to receive the attaching members of said panels, one member of each pair of said supporting members being provided with notches spaced to receive the said attaching members of said panels; and panel retaining bolts adjustably connected to said supporting members.

14. In a sign, the combination of a plurality of panels having attaching members thereon; and a supporting frame comprising pairs of facing supporting members adapted to receive the attaching members of said panels, one member of each pair of said supporting members being provided with notches spaced to receive the said attaching members of said panels.

15. In a sign, the combination of a plurality of panels having attaching members thereon; a supporting frame comprising pairs of facing supporting members adapted to receive the attaching members of said panels; and panel retaining bolts adjustably connected to said supporting members.

16. In a sign, the combination of a plurality of panels formed of sheet metal; frames for said panels formed of angle iron arranged on the rear sides of the panels,

said frames; attaching members therefor; interlapping joint strips secured on the inside of the outer arms to said angle iron of the side pieces of said panel frames, the joint strips on one edge of each panel being spaced from the frame to receive the joint strip of the adjacent panel when the edges of the panels are brought together; and a supporting frame comprising pairs of facing supporting members adapted to receive the attaching members of said panels.

17. In a sign, the combination of a plurality of panels formed of sheet metal; frames for said panels formed of angle iron arranged on the rear sides of the panels, said frames; attaching members therefor; and a supporting frame comprising pairs of facing supporting members adapted to receive the attaching members of said panels.

18. In a sign, the combination with a plurality of panels; attaching members therefor, of a supporting frame therefor comprising horizontal arranged members, the upper horizontal members being formed of U-shaped and the bottom of Z-shaped angle bars and the intermediate member being formed of a T-shaped angle bar, whereby pairs of facing supporting members are provided to receive the said attaching members of said panels.

19. In a sign, the combination with a plurality of panels having attaching members thereon, of a support therefor comprising a plurality of members formed of angle iron arranged to provide pairs of facing supporting members said attaching members of said panels being adapted to be engaged on said supporting members whereby the panels are readily secured to or disengaged therefrom.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

FRED. W. RUBY. [L. S.]

Witnesses:

REUBEN H. ROSSMAN,  
CHAS. H. TEBBETTS.