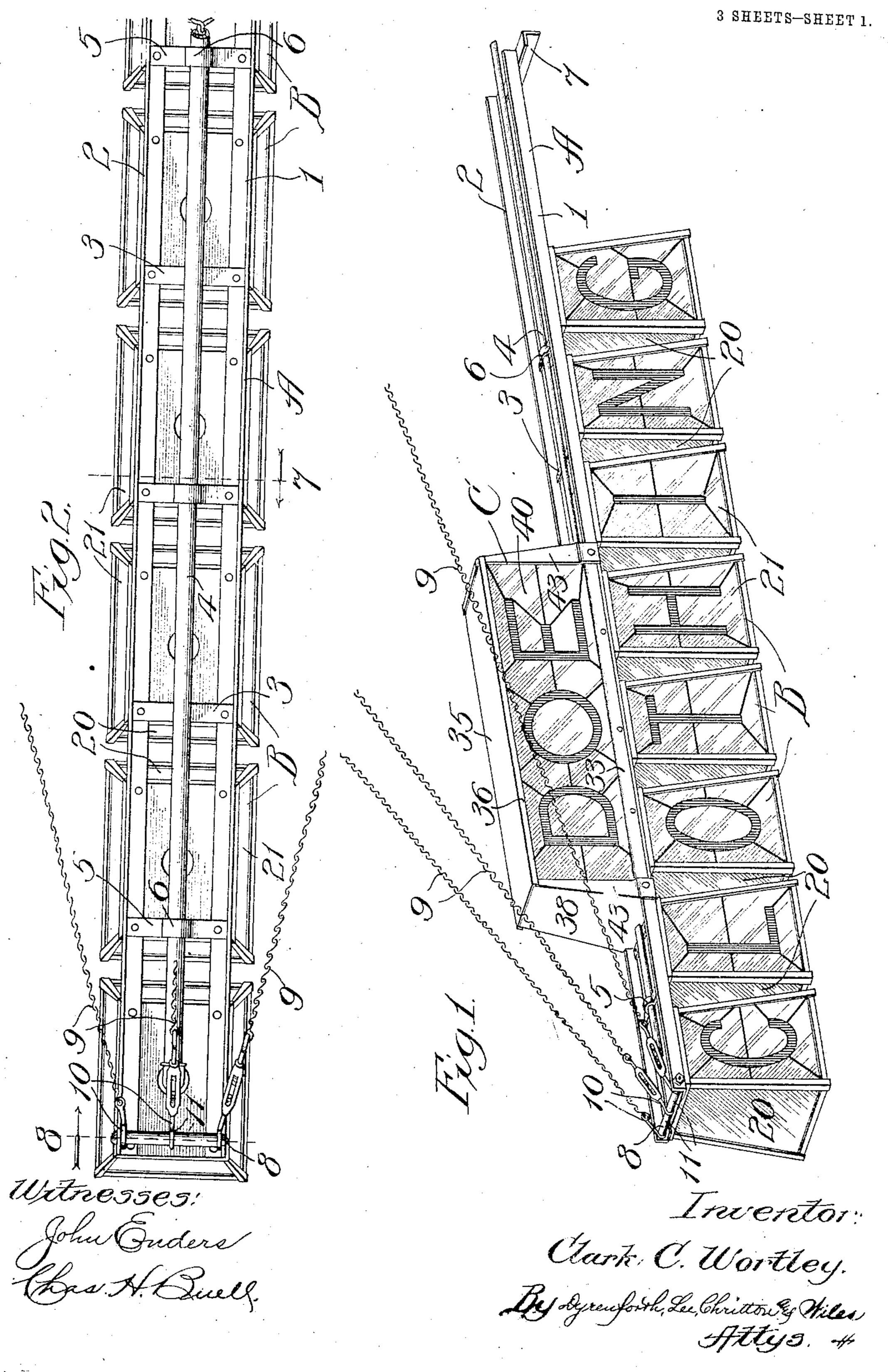
C. C. WORTLEY. SIGN.

983,593.

APPLICATION FILED JAN. 6, 1909.

Patented Feb. 7, 1911.

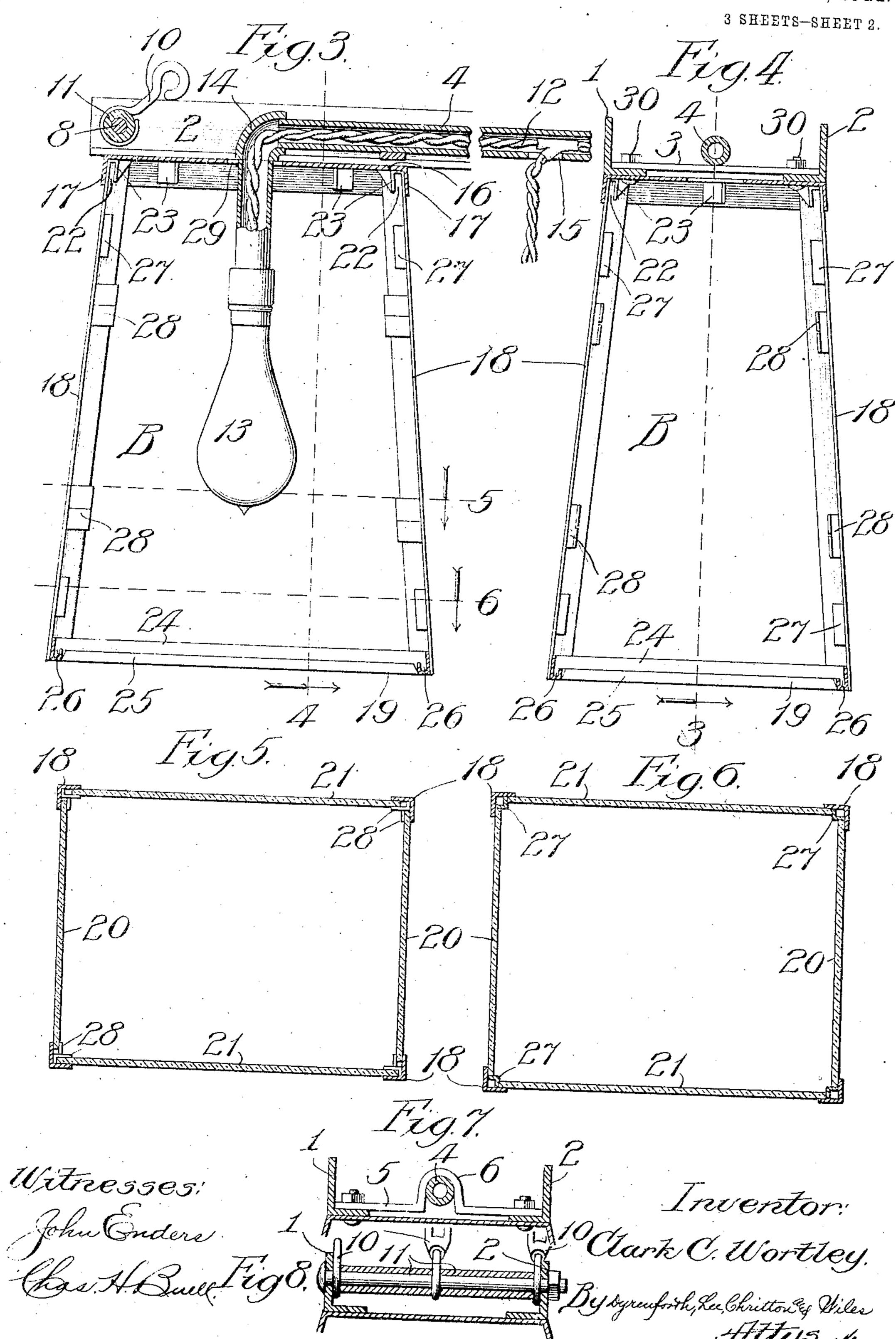


C. C. WORTLEY. SIGN.

APPLICATION FILED JAN. 6, 1909

983,593.

Patented Feb. 7, 1911.



C. C. WORTLEY. SIGN. APPLICATION FILED JAN. 6, 1909. 983,593. Patented Feb. 7, 1911. 3 SHEETS-SHEET 3.

UNITED STATES PATENT OFFICE.

CLARK C. WORTLEY, OF CHICAGO, ILLINOIS.

983,593.

Specification of Letters Patent. Patented Feb. 7, 1911.

Application filed January 6, 1909. Serial No. 470,912.

To all whom it may concern:

Be it known that I, Clark C. Wortley, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Signs, of which the following

is a specification.

My invention relates particularly to signs adapted for street purposes and provided 10 with illuminating means; and my primary object is to provide a sign of improved construction and appearance, capable of being manufactured at a moderate cost, and having provision for the ready substitution of 15 new lettering or new lettered-panels.

The invention is illustrated in its preferred embodiment in the accompanying

drawings, in which—

Figure 1 represents a perspective view of a 20 sign constructed in accordance with my invention; Fig. 2, a plan view of the same with the upper section of the sign removed; Fig. 3, an enlarged broken longitudinal vertical sectional view showing the outer end-25 portion of the sign; Fig. 4, a transverse section taken, as indicated, at line 4 of Fig. 3; Figs. 5 and 6, horizontal sectional views lines of Fig. 3; Figs. 7 and 8, broken vertical 30 sectional views taken, as indicated, at the |. The pipe 4 serves as a conduit for electriccorresponding lines of Fig. 2; Fig. 9, a broken longitudinal sectional view through the upper portion of the sign, showing one end-plate of the frame detached; Fig. 10, a 35 broken transverse vertical section taken, as indicated, at line 10 of Fig. 9; Fig. 11, a broken perspective view of the end-plate which is shown detached in Fig. 9; Fig. 12, a transverse sectional view showing a modi-40 fiçation; Fig. 13, a broken side elevational view, on a reduced scale, of the construction: shown in Fig. 12: and Fig. 14, a broken section taken, as indicated, at line 14 of Fig. 12.

Referring to Figs. 1 to 11, inclusive, the 45 construction, in the form illustrated, comprises a horizontally-disposed frame A which may be connected with the side of a building in any suitable manner; a series of ⁵⁰ devices B depending from the frame A; and a sign-section, or panel-equipped illuminable device C surmounting the frame A.

The frame A preferably is constructed of a pair of angle-bars 1 and 2 extending parallel with each other and separated by a space of a few inches; transverse-bars or

spacing-members 3 connecting said anglebars; a centrally-disposed tubular member 4 resting on the cross-bars 3; and a series of transverse-bars 5 connected with the angle- ec bars 1 and 2 and having their central portions curved upwardly, as indicated at 6, to accommodate the tubular member or pipe. 4. The angle bars 1 and 2, which are disposed in a horizontal plane, have one set of 65 flanges turned toward each other and the other set of flanges turned upwardly, as will be readily understood from Fig. 7, whereby a space is afforded between the vertical flanges in the central portion of which the 70 pipe 4 is located.

The inner end of the frame A is shown equipped with an angle-bracket 7 which may be connected with a wall of a building; and the outer ends of the bars 1 and 2 are con- 75 nected by a bolt 8, with which are connected. supporting cables 9, represented as three in number. The cables 9 are equipped at their outer ends with connecting members 10 which are pivotally joined to the bolt 8.80 One of the cables is connected with the central portion of the bolt and the other two with the end-portions thereof, the members taken, as indicated, at the corresponding 10 being separated or spaced by spacingsleeves 11.

> conductors 12, which may pass from the building through said pipe, said conductors, having connected therewith electric-lights 13 located in chambers B and C. The outer 90 end of the pipe 4 is equipped with an elbow 14 having a down-turned open end through which the conductors for the last of the series of lamps 13 pass. Said pipe is also provided at intervals in its lower side with 95 perforations or outlets 15 through which the electric conductors for the lamps may pass.

While the bracket 7 provides for a substantially rigid connection between the inner end of the frame A and the building, it 100 will be understood that any desired connec-

tion may be employed at this point. Each panel-equipped device or chamber B preferably comprises a sheet-metal topilluminable sign-sections, or panel-equipped | plate 16 of rectangular form and having 105 down-turned flanges 17; angle-form cornermembers 18 depending from the corners of the flanged top-plate 16 and inclining as shown; a channel-form lower rim-member 19 connected with the lower ends of the 110 corner-members 18; transparent end-panels! 20; and transparent character-bearing side-

panels 21. The flanges 17 form an upper rim-member within which the upper margins of the glass-panels 20, 21 are received. channels 22 being provided for the recep-5 tion of the upper ends of the glass-panels by attaching angle-form clips or lugs 23 to the top-plate 16, the depending flanges of said members 23 co-acting with the flanges 17. Preferably the upper ends of the corner-10 frame members 18 fit within the corners formed by the flanges 17, said members 18 being secured by means of solder; and the members 23 may likewise be secured in place by means of solder. The channel-bars 19 15 which form the lower rim-member preferably have relatively wide upturned outer flanges 24 and relatively narrow upturned inner flanges 25, the flanges 25 being narrower than the length of the depending 20 flanges of the members 23, so that the panel may be inserted by entering its upper end in the channel 22, passing the lower end over the flange 25 of the lower rim-member. and then allowing the panel to drop into 25 the channel 26 of the lower rim-member. Within the corners of the angle-bar cornermembers 18 are soldered small reverselyflanged members 27 which afford bearings for the edges of the glass-panels; and to 30 the inner surfaces of the flanges of the anglebar corner-members 18 are soldered flexible sheet-metal members 28, which may be bent, according to necessity, to secure the vertical margins of the glass-panels. The members 35 28 may likewise be bent back to permit the the chamber, in order to reflect the light 100 glass-panels to be removed, either for the purpose of washing the same or substituting other panels. The panels 21 may serve as individual panels for the reception of letters. 40 so that when the panels are rightly associated a name is produced. The lower ends of the chambers B may be left open. As thus described, each chamber, or panelequipped device, B presents somewhat the 45 appearance of a truncated hollow pyramid with transparent sides, two of the sides being employed for receiving sign-characters. The top-plates 16 are provided with centralperforations 29 through which depend the 50 electric-conductors with which the electric lamps 13 are connected, each chamber thus serving as an individual housing for an electric-light. Each top-plate 16 is detachably connected with the horizontal flanges of the 55 angle-bars 1 and 2 by means of bolts 30.

The surmounting device C, as will be understood by reference to Figs. 1, 9, 10 and 11, preferably comprises a sheet-metal bottom-plate 31, which is supported on the 60 angle-bars 1 and 2, the metal of which is bent up and then back upon itself to afford upturned flanges 32, the metal being then extended downwardly to form flanges 35 which embrace the vertical flanges of the angle-65 bars 1 and 2, and are connected therewith by

means of bolts 34; a sheet-metal top-plate 35 having downturned lateral flanges 36; vertically-disposed sheet-metal division-plates 37 connected at their lower ends with the bottom-plate 31 and at their upper ends 70 with the top-plate 35; end-plates 38 and 39; the latter of which is removable; and glasspanels 40 forming the sides of the chamber and removably inserted in guides 41 and 42 with which the bottom plate 31 and top- 75 plate 35 are equipped, respectively, on their inner surfaces. The guides 41 and 42 may be formed by securing small channel-bars adjacent to the flanges 32 and 36, as illustrated. The end-plates 38 and 39 incline, as 80 shown in Fig. 9, and have lateral flanges 43 adapted to embrace the end-portions of the bottom-plate 31 and top-plate 35, said flanges 43 serving also to house the end of the glass-panels 40. As shown in Fig. 1, the 85 lower ends of the plates 38 and 39 are provided with central recesses 44 which accommodate the pipe 4, and with recesses 45 which accommodate the flanges 32 and the vertical flanges of the angle-bars 1 and 2, 90 As has been indicated, the end-plate 39 is removable. It is provided at its upper end with an inturned flange 46 adapted to fit over the top-plate 35, said flange and topplate being provided with perforations 95 adapted to receive a pin 47. The vertical plates 37, the bottom-plate 31 and the topplate 35 may be enameled or painted white on the surface presented to the interior of from the lamps 13. This may be true, also, of the interior surfaces of the end-plates 38, 39. To remove the panels 40 it is necessary only to remove the end-plate 39, when the panels may be moved longitudinally in their 105 guides.

A sign of the construction described is strong, durable and of pleasing design and appearance. The individual panels are removable for the purpose of renewal or sub- 110 stitution, and, in case of breakage, the expense of repair is reduced to a minimum. Ordinarily, art-glass is employed in the transparent panels, hence the economy resulting from the possibility of renewing the 115 panels or letters individually is of great importance. The surmounting device C may or may not be employed. When it is employed it may serve to receive the name of a merchant, the individual panels serving to 120 indicate the character of the business conducted. The construction provides for securely housing the electric conductors and hiding the conduit which contains them from view when the sign is viewed from 125 the street, and the open-work construction of the frame A prevents objectionable accumulation of dirt and permits the sunlight to pass between the devices B and through the end-panels 20 thereof, thereby insuring 130

good illumination of the letters in the daytime.

In the modification illustrated in Figs. 12, 13 and 14, the general construction is the 5 same as the construction already described, and the parts are similarly lettered. In this construction, however, the spaces 48 between the adjacent devices B are flanked by glassplates or panels 49 held by channel-form 10 guides 50 and 51 carried by the upper and lower rim-members 17 and 19 of the frames of adjacent devices B. The panels 49 are secured in the channels 50 and 51 by lugs 52, as shown in Fig. 14. As will be understood 15 from Figs. 13 and 14, the edges of the panels 49 overlap or project past the corners of the adjacent devices B slightly; and the panels 49, as will be understood from Fig. 12. are carried at a short distance from the 20 glass-panels 21 of the devices B, being separated by a space 53, so that light thrown upon the inner surfaces of the panels 49 may be reflected upon the outer surface of the panels 21. In this construction, electric-25 lights 54 may be located between adjacent devices B, so as to throw light upon the inner surface of the panels 49 from whence it will be reflected upon the outer surfaces of the panels 21. Where the modified con-30 struction is employed, the lamps within the devices B may be dispensed with, if desired, and so also may be the end-panels 20 of the devices B.

The foregoing detailed description has 35 been given for clearness of understanding only, and no undue limitation is to be understood therefrom.

What I regard as new, and desire to secure by Letters Patent, is—

40 1. In a sign, the combination of a supporting-frame, a series of panel-frames depending therefrom, each comprising a topplate provided with panel-receiving channels, corner-members depending from said 45 top-plate, and a lower rim supported by said corner-members and having a channel bounded by a relatively narrow inner flange, and removable character-bearing panels re-

50 2. In a sign, the combination of a pair of ¹

ceived in said channels.

angle-bars having one set of flanges turned toward each other and another set of upturned flanges, cross-members connecting said angle-bars, a pipe supported on said cross-members, panel-supporting frames de- 55 pending from said angle-bars, characterbearing panels carried by said panel-supporting frames, electric lights serving to illuminate said panels, and electric conductors connected with said electric lights and 60 extending through said pipe.

3. In a sign, the combination of a horizontally-disposed frame, a series of horizontally alined panel-frames depending therefrom, character-bearing panels carried 65 by said panel-frames, and a surmounting device carried by said frame and comprising a frame and character-bearing panels remov-

ably connected therewith.

4. In a sign, the combination of a hori- 70 zontally-disposed open frame, a pipe supported thereon and provided in its lower side with openings, electric conductors in said pipe extending through said openings, a series of horizontally alined panel-frames 75 depending from said first-named frame, character-bearing transparent panels supported by said panel-frames, electric lights within said frames, a device surmounting said first-named frame comprising a frame 80 composed of a top-plate and end-plates, removable character-bearing transparent panels carried by said last-named frame, and an electric light within said last-named frame, said conductors being connected with said 85 electric lights.

5. In a sign, the combination of a pair of angle-bars having a set of flanges turned toward each other and another set of upturned flanges, cross-bars connecting said 90 angle-bars, a cross-bolt connecting the outer ends of said angle-bars, cables connected with the central and end portions of said bolt, spacing-sleeves on said bolt, and a series of panel-equipped individual frames de- 95 pending from said angle-bars.

CLARK C. WORTLEY.

In the presence of— A. U. THORIEN, R. A. Schaefer.