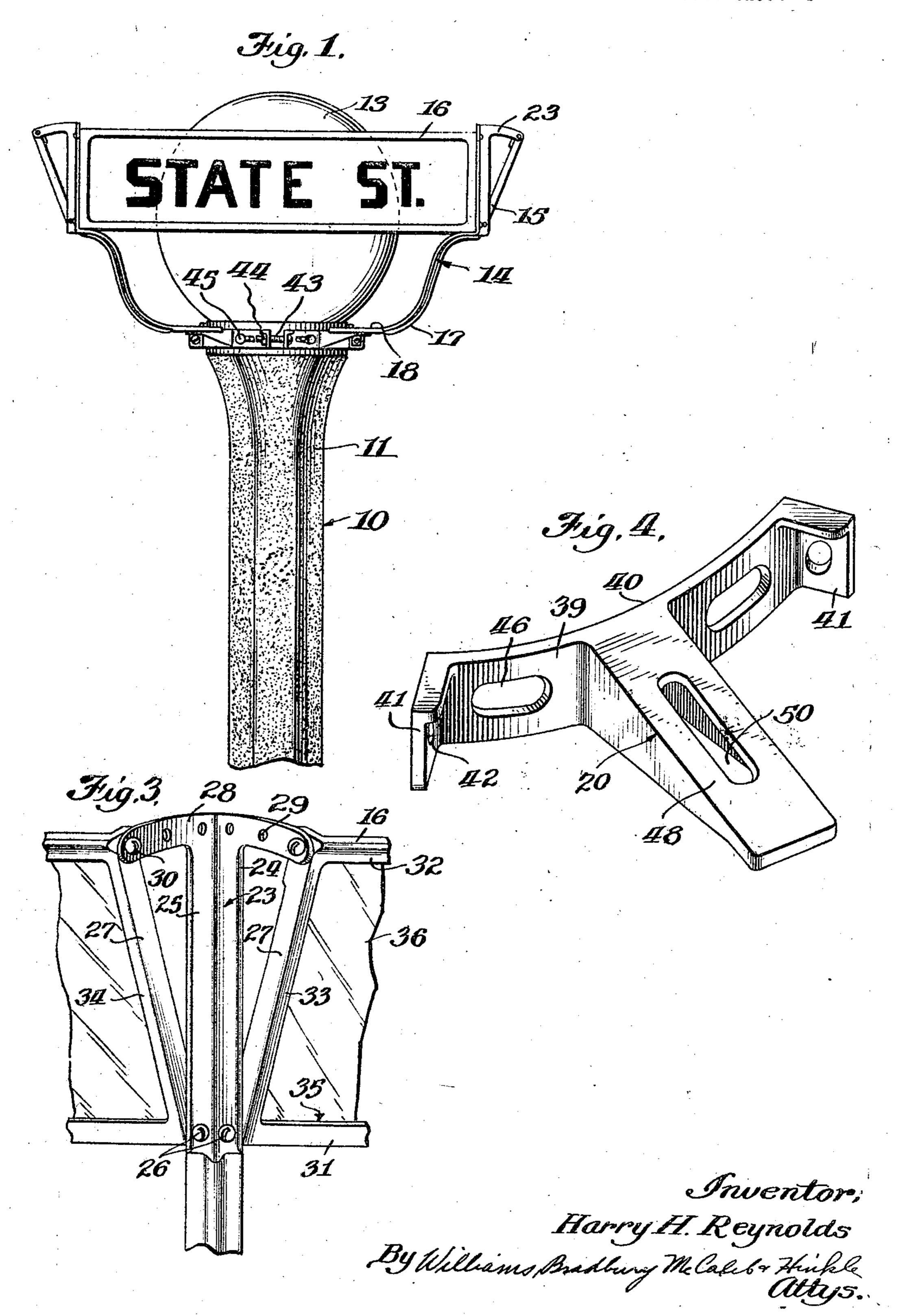
STREET SIGN

Filed Oct. 31, 1929

3 Sheets-Sheet 1



Oct. 7, 1930.

H. H. REYNOLDS

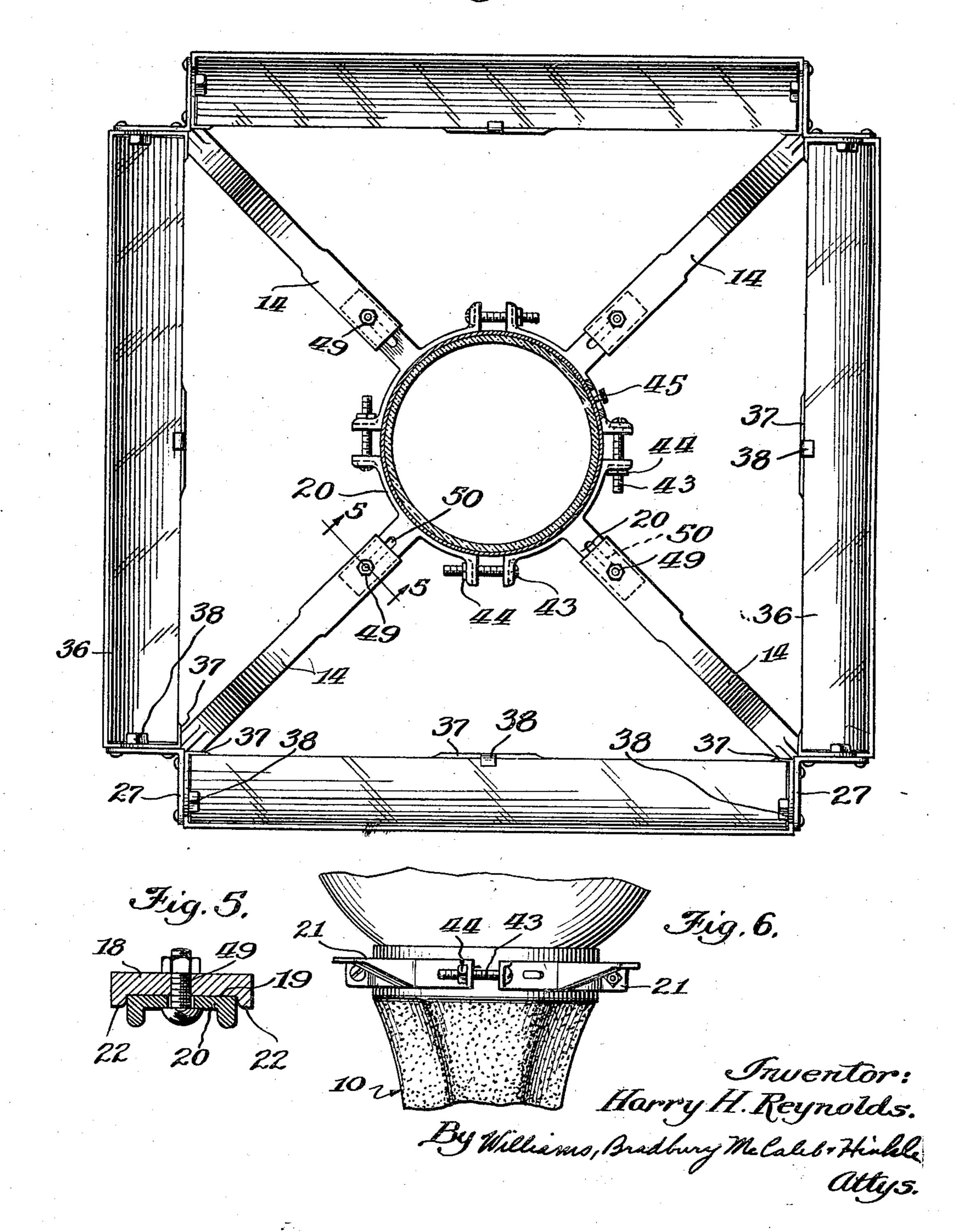
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STREET SIGN

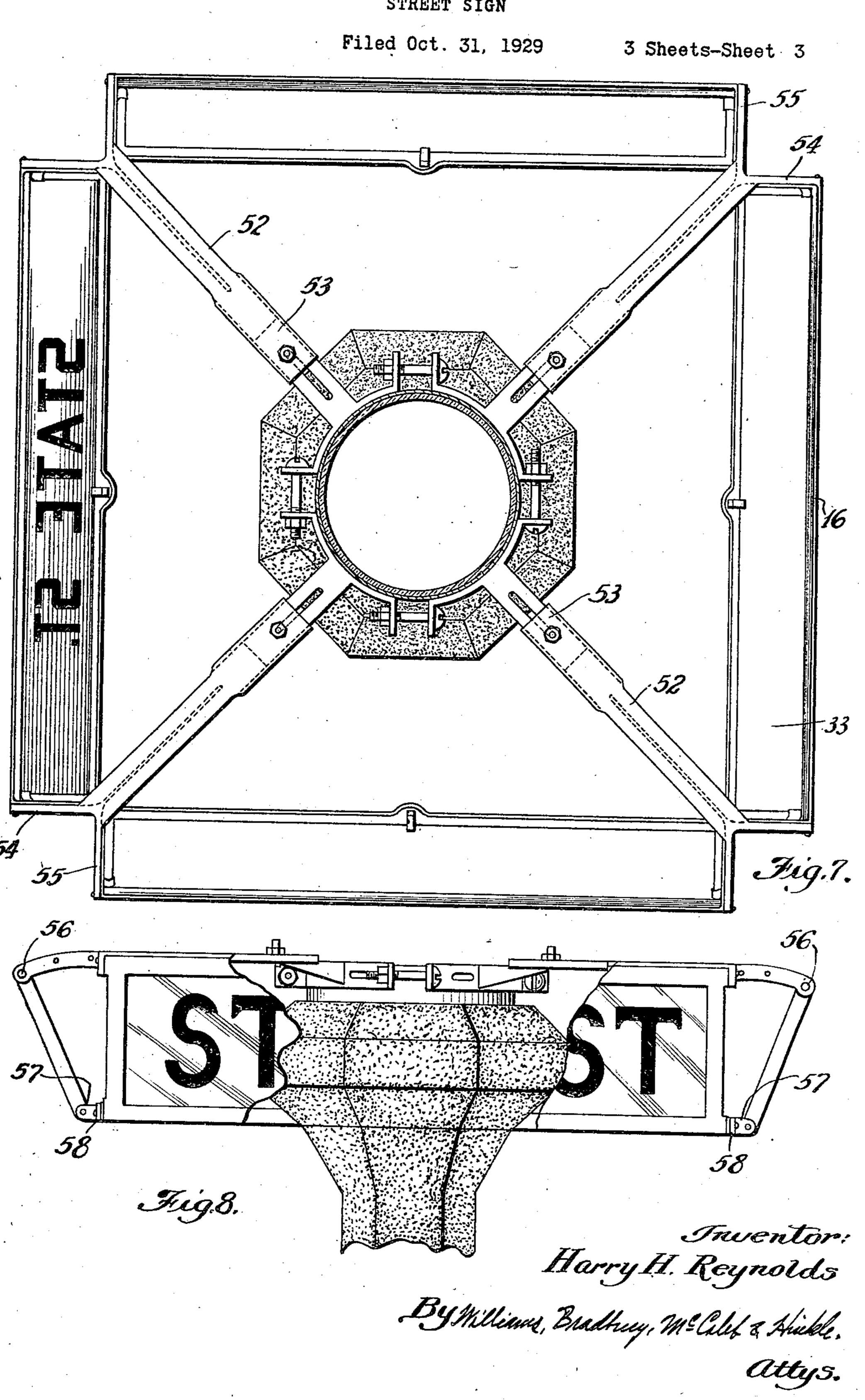
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3 Sheets-Sheet 2

Fig. 2.



STREET SIGN



UNITED STATES PATENT OFFICE

HARRY H. REYNOLDS, OF CHICAGO, ILLINOIS, ASSIGNOR TO ALFRED M. RYCKOFF, OF CHICAGO, ILLINOIS

STREET SIGN

Application filed October 31, 1929. Serial No. 403,882.

The present invention relates to street assistance of several laborers, or lifting de-

street lights or parts thereof.

The signs of the prior art have not been Another object of the invention is the pro- 55 universally applicable to modern street vision of an improved lamp structure, which lamps of all kinds, nor have they been capa- is adapted to automatically center itself, and ble of utilizing to the best advantage, the provided with means for guiding the variillumination provided by the street lamp ous supporting elements into proper position. under all conditions for lighting the sign at Another object is the provision of an im- 60 15 prior devices can only be attached to existing labor and expense in the installation of the 65 lamps with great difficulty, on account of the signs. problem involved in holding the heavy metal Other objects and advantages of the insign structure in place while it is being secured by bolts or other fastening devices.

When the sign is of any substantial size and constructed of cast metal, as is usually the case, it is particularly difficult to hold the sign in place and at the same time secure it to the post or other parts of the lamp, be-25 cause the signs are usually located at such a height that it is necessary to use one or more ladders, and the prior signs must ordinarily be supported at both sides by one or more workmen, while other workmen adjust

30 the securing devices provided.

One of the objects of the present invention is the provision of an improved street sign which is universally applicable to practically all kinds of modern street lamps, or 35 which is applicable to more lamps than the devices of the prior art, and which may be adjusted to utilize the illumination to the best advantage for lighting the signs and the surrounding terrain.

proved street sign structure, which is capa- the signs; ble of more economical manufacture than the Fig. 7 is a plan view in partial section of a prior devices, more durable and capable of modified form of construction;

Another object is the provision of an im- other details of structure of the device. proved street sign structure, which is capa- Referring to Fig. 1, 10 indicates in its enble of being attached to street lamps and ad- tirety the lamp unit which may consist of a justed or secured with a minimum amount post 11 or other support usually provided

signs, and is particularly concerned with vices for holding the sign in place while it is signs of the type adapted to be attached to being secured to the post or other parts of the street lamp.

night, without casting disagreeable shadows proved method of installing street lamp signs or obscuring the lamp. The prior devices which is applicable to many different forms have also been expensive to manufacture and of the improved structure shown herein, and assemble with modern street lamps, and the which results in a substantial saving of time,

> vention will be apparent from the following description, and from the accompanying drawings, in which similar characters of ref- 70 erence indicate similar parts throughout the

several views.

Referring to the drawings, of which there are three sheets;

Fig. 1 is a side elevational view of a lamp 75 equipped with a sign constructed according to the present invention;

Fig. 2 is a plan view with the globe or lamp in section, in order to reveal the construction of the sign unit;

Fig. 3 is an enlarged elevational view of the corner structure of the sign unit;

Fig. 4 is a view in perspective of one of the parts of the securing and supporting unit;

Fig. 5 is a sectional view taken on the line s5 5-5 of Fig. 2, showing the structure of the automatic centering device;

Fig. 6 is an elevational view of the lamp unit and supporting unit as the device ap-Another object is the provision of an im- pears after the first step in the installation of 90

more permanent and firm attachment to Fig. 8 is another view in elevation, of the modern street lamp structures. modified construction broken away to show 95

of effort, and without the necessity of the with a metal ring 12 for supporting a globe 100

13, or other luminous body, having an electric bulb or an equivalent source of illumination located inside the globe 13 for illuminating

the surrounding terrain.

It should be understood that the globe 13 may be of any shape or equivalent structure, and the source of illumination provided may be any of the conventional sources of illumination capable of being employed with the

10 particular type of globe used.

The sign unit is indicated in its entirety by assembly. the number 14, and the sign unit 14 preferably includes a framework 15 surrounding said in shape and it should be understood that any globe and carried by either of the supports 11 number of sign frames may be employed, so 15 or 12, for locating a plurality of sign carrying that while the present sign unit is rectangu- 80

illumination provided.

framework 15 preferably comprises a plural-20 ity of radially extending arms 17, the middle portion of which may be of substantially Sshape in order to improve the ornamental appearance of the sign and to bring the signs into a position which is most desirable with 25 certain types of lamps. The supporting arms 17 are provided at their inner end with a substantially horizontally extending part 18, having a lower seating surface 19 for receiving the radially extending arms 20 carried 30 by the securing and supporting unit 21.

In order to accomplish the function of automatically centering and locating the sign unit upon the supporting unit 21, the horizontal parts 18 of the arms 17 may be provided with 35 depending flanges 22 forming a recess or groove for receiving the radial supporting arms 20 of the supporting unit 21. it should be understood that in some embodiments of the invention the flanges 22 may be carried by 40 the arms 20 of the supporting unit forming a guide in the top of the arm 20 for receiving a complementary member on the sign unit.

The framework 14, surrounding the globe 13, also includes vertically extending parts 23 45 on each of the radial arms 17 for the purpose of fixedly or adjustably supporting a plural-

ity of sign carrying frames 16.

Each of the vertically extending parts or corners 23 is illustrated in detail in Fig. 3, and 50 it will be observed that in this embodiment, the arm 17 is provided with an integral upwardly extending corner member 23 having a pair of flanges 24 and 25 at right angles to each other. At their lower ends, each of the flanges 24 and 25 is provided with an aperture for receiving screw bolts 26 passing through the flanges 24, 25 and threaded into the flanges 27 on the sign carrying frames 16 for pivotally supporting the bottom of the sign frames during adjustment and fixedly supporting the frames when the sign unit has been installed as desired.

Each of the flanges 24 and 25 is provided at its top with a lateral extension or arcuate—face 40, which is complementary to the outer 130

portion 28, each of which may be provided with any number of apertures 29 for receiving screw bolts 30 to secure the sign frames 16 in any of a plurality of positions.

It will be understood that the apertures 29 70 are located upon the arc of a circle drawn with the axis of the bolts 26 as a center, but the extensions 28 need not necessarily be arcuate in shape, but are preferably made so to save material and decrease the weight of the 75

The various sign frames 16 may be identical frames 16 in the best position to utilize the lar in plan, a sign might also be constructed which would be hexagonal in plan if it were In the embodiment shown in Figs. 1 to 5, the desired to accommodate the sign unit in an intersection having three streets. In such case, the sign frames would naturally be shorter 55 and the angle between the flanges 25 and 24 and the number of arms would be changed ac-

cordingly.

Since the sign frames 16 are identical, it will be suffice to describe in detail one of 30 these frames, which may consist of a metal member having a pair of horizontal extending members 31 and 32, and a pair of end frame members 33, 34, forming a fenestration 35 for exposing a sign 36. The end 95 frame members 33 and 34 are preferably provided with inwardly extending flanges 27 for enclosing the sign 36 and providing space for attachment of the sign frame to the frame work, and the bottom frame member 31 may 100 be provided with one or more inwardly extending flanges 37 located at the middle or ends, or extending completely along the bottom for supporting the weight of the sign 36. The flanges 27 and flange 37 are pref-105 erably provided with resilient metal fingers 38 extending substantially parallel to the rear side of the sign frame 16, but spaced therefrom so that the fingers 38 form guides for the rear side of the sign 36, and also form 110 securing devices for resiliently engaging the signs 36 when they are in place.

The signs 36 may consist of any material which is capable of receiving printed or other characters, and capable of transmitting some 115 light so that the characters will be illuminated by the unequal transmission of light through the characters and back ground, and the term "translucent" is used in this specification and claims for designating all mate- 120 rials of this character, such as ground glass, painted glass, ground glass with painted let-

ters, etc.

Referring to Fig. 4, one of the elements of the securing and supporting unit is illus- 125 trated in perspective in this figure. The element illustrated in Fig. 4 may consist of an arcuate metal clamping member 39, preferably provided with an inner cylindrical sur-

surface of the metal supporting ring 12 which tering of the sign unit upon the supporting

carries the globe 13.

may also be secured directly to the post 10, curing bolts 43 also increases the amount of but lamp-post or other supporting devices are made of a vast number of different shapes, rings or posts of different sizes. The sign unit and frequently provided with ornamental illustrated in Figs. 1 to 5 is best adapted to formations adjacent the top, so that one of be utilized on posts where the lamp 13 is of the important features of the present inven- such a height that it is more desirable that 10 tion is the provision of a supporting unit, the sign be located near the top of the lamp 75 which is peculiarly adapted to be carried by 13, thereby permitting utilization of all of the the ring 12 which supports the lamp 13.

rings of this type, of a plurality of standard shadows on the ground. 15 sizes, and provided with a firm and durable Referring to the embodiment illustrated in 80 connection to the lamp-post or other device, and the provision of a securing unit which is adapted to be applied to a metal part, rather than to the concrete, greatly increases the 20 durability and permanence of securement to

the lamp.

vided with a radially extending flange 41 the present device is peculiarly adapted to having an aperture 42 for receiving the support the frames in a different manner and

cured by nuts 44.

ordinarily provided with screws 45 for en-sists of a plurality of radially extending gagement with the lower rim of the globe 13, arms 52 having their inner ends 53 of substan-30 the clamping elements 39 are provided with tially the same shape as that previously de- 95 apertures 46 of sufficient size to pass the heads scribed. The arms 52 may be straight so that of the screws 45 and the apertures 46 may they extend out horizontally, or, if desired, be elongated for the purpose of permitting they may be provided with a downward curve rotary adjustment of the supporting unit on to locate the sign unit lower, and the outer 35 the ring 12. When the supporting unit 21 ends of the arms 52 and 53 are provided with is supported in clamping relation to the ring 12 or post 11, it will be observed that spaces usually exist between the radial flanges 41, diagonally with respect to the radial arm 52. thereby providing additional means for ad-40 justment and location of the clamping members 39 on the ring 12 with respect to the existing screw heads 45.

Each of the clamping members 39 is provided with an outwardly extending support-45 ing arm 20, preferably tapered to secure a maximum strength for a minimum amount of material and provided with an upper supporting surface 48 adapted to engage the seating surface 19 on the bottom of the arms 50 17 carried by the sign unit. The horizontal portion 18 of the arms 17 is provided with an aperture for receiving a securing bolt 49, and the supporting arm 20 is provided with an elongated slot 50 for adjustably receiv-55 ing the bolt 49 to secure arms 17 and 20 together.

The slot 50 permits radial adjustment of the clamping members 39 to fit posts or rings of any size, while still maintaining some part 60 of the slot 50 in registry with the aperture for bolt 49 in arm 17.

As previously described, the supporting arm 20 is adapted to be slidably received in a and this may be done by assembling part of complementary groove between flanges 22, so the supporting unit on the ground and com-

unit. The provision of a plurality of separate Under certain conditions, the present sign clamping members 39 with relatively long seadjustment which may be made to clamp 70 light radiated from the lower part of the lamp Most modern street lamps include metal for illuminating the terrain without casting

Figs. 7 and 8, this modified form of construction is best adapted to be used where it is desired to locate the sign unit slightly below the luminous body 13. In this construction the supporting unit 21, sign frames 16 and signs 33, may be identical in construction to that Each of the clamping elements 39 is pro- previously described, but the framework of 25 clamping bolts 43 which are preferably se- greatly reduce the dead weight of the sign

Since the lamp supporting rings 12 are In this embodiment, the framework conoutwardly extending flanges 54 and 55 which are located at right angles to each other, and

> Each of the flanges 54 and 55 may be provided with a plurality of apertures for receiving screw bolts 56 for securing the upper portion of the sign frames 16 to the arm 52 in the same manner as in the previous embodi-

ment.

The lower and adjacent corners of the sign | 10 frames 16 are pivotally secured to each other by providing a right angle bracket 57 having a pair of flanges, each of which is provided with an aperture for receiving screw bolts 58 which are threaded into the flanges 27 of the 115 adjacent sign frames.

The sign frames of this device are also capable of angular adjustment to utilize the illumination to the best advantage, but the frames depend from their supporting arms 120 so that the structure of the supporting arms is greatly simplified and made lighter in

weight and easier to manufacture.

The method of installment of the present sign units is as follows. The supporting unit 125 21 is first secured to a part of the post, preferably the ring 12 which carries the globe 13, as to assist in the location and automatic cen-pleting the assembly at the top of the post. 130

is a simple matter for one workman, because it is desired. he can hold the supporting unit with one hand and manipulate his tools with the other. Fig. 5 6 illustrates the completion of the first step

in the installation of signs.

The signs should preferably be removed from the sign unit, while it is being installed, in order to eliminate breakage and decrease 10 the weight, and the sign may be assembled on the ground before application to the post, tightening of the respective bolts. With one corner open and the bolts loosened. the frames 15 may be sprung apart to permit the sign unit to be placed about the bottom of the post, after which the assembly may be completed and the bolts tightened. In some cases it may be found desirable to insert the signs on the 20 ground, after the unit is assembled about the post.

The sign unit 14 may then be raised about the post 11 and the arms 17, being located to prevent interference with the arms 20, the 25 sign unit may be raised above the supporting unit 21, rotated slightly and seated upon the supporting arms 21. When this is done, it is only necessary to effect a preliminary seating of any two of the arms 17 upon the arms 20 33 of the supporting unit 21, after which the sign unit may be slid on two of the radial arms 20 until the other arms 17 come into registry with the other two radial arms 20, when the flanges 22 will automatically center and locate

35 the sign unit.

In some embodiments of the invention, where the ornamentation of the top of the post is too large to pass the ends of the arms 17, the sign unit may be assembled entirely on the ground and lifted over the top of the globe 13, provided the globe is small enough to clear the ends of the arms 17, as in the embodiment of Fig. 1. In extreme cases where the globe is too large, the present sign unit may be 45 quickly installed by removing the globe. After the sign unit is properly located, the arms 17 are secured to the arms 20 by means of the bolts 19 and if necessary, other bolts may be loosened or tightened to insure hori-50 zontal and symmetrical location of the signs.

It will thus be observed that the present sign unit may be installed with much greater facility than the devices of the prior art, because the sign unit may be assembled on the 55 ground and merely lifted and supported in place by the supporting unit, while the bolts are fastened. This eliminates the necessity for a number of extra workmen in the installation of the signs, particularly where co the signs are constructed of cast metal, and are therefore of considerable weight. The present method of installation, however, has substantial advantages with signs of practically any weight, because it is a difficult es matter to both support the weight of the sign

As the supporting unit is relatively light, this in place and at the same time secure it where

The present signs are also adapted to utilize to the best advantage, the illumination provided by practically all types of modern 70 street lamps, by means of the angular adjustment of the sign frames, and by means of the different types of arms provided, the sign frames may be located substantially

above or below the globe.

While I have illustrated a preferred emwith the exception of one corner, and the bodiment of my invention, many modifications may be made without departing from the spirit of the invention, and I do not wish to be limited to the precise details of con- 80 struction set forth, but desire to avail myself of all changes within the scope of the appended claims.

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

Patent of the United States, is:

1. A street sign assembly, comprising a street lamp globe, a metal annulus for supporting said globe, and a street sign having a translucent member adapted to be illuminat- 90 ed by said globe, said street sign including a plurality of clamping members having recesses to receive securing devices carried by said annulus, and said clamping members

being secured on said annulus.

2. In a street sign assembly, the combination of a concrete lamp post, with a metal annulus carried thereby for supporting a globe, a globe carried by said annulus, a supporting unit comprising clamping members 100 clamped on said annulus and having radially extending arms, and a sign unit comprising a plurality of frames with street signs, means for pivotally securing together the lower and adjacent corners of said frames, and hori- 105 zontal arms carried by said radial arms, and having flanges engaging the sides of said radial arms, said horizontal arms having means for adjustably supporting depending sign frames from their upper parts.

3. A street sign, comprising a concrete post having a metal annulus fixedly secured to said post to provide a support for a street lamp, an illumination globe carried by said annulus, a plurality of metal clamping mem- 115 bers having curved surfaces for engaging said annulus, and adjustable threaded members for securing said clamping members on said annulus, said clamping members having radially extending arms, metal sign frames 120 having translucent signs in said frames for illumination by said globe, means for securing the lower corners of said frames together, end to end to form a sign assembly, and a radial arm at each of the corners of said assem- 125 bly for supporting said sign assembly below said annulus, each of said latter radial arms being secured to one of the arms of said clamping members.

4. A street sign, comprising a concrete 130

post having a metal annulus fixedly secured to said post to provide a support for a street lamp, a globe carried by said annulus, a plurality of metal clamping members, each hav-5 ing a curved surface for engaging said annulus, and a radially extending arm for supporting a sign assembly, adjustable threaded members for securing said clamping members on said annulus, a plurality of metal sign frames each having a sign in said frame for illumination by said globe, means for se-curing the lower corners of said frames together, end to end, to form a sign assembly, a sign supporting arm for each corner of said sign assembly, said sign supporting arms having downwardly extending flanges for engaging on both sides of said radial arms, and having a pair of arms extending at right angles to each other at the outer end 20 of said sign supporting arms, said sign frames having their upper corners secured to said latter right angle arms, and said sign frames depending from said arms below said globe to be illumined by downwardly and 25 laterally directed rays of light without obscuring said globe.

In witness whereof, I hereunto subscribe my name this 29th day of October, 1929.

HARRY H. REYNOLDS.

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