Dec. 2, 1941. G. H. SEAL 2,264,556

COLLAR SUPPORT

Filed Jan. 15, 1940

FIG. 1

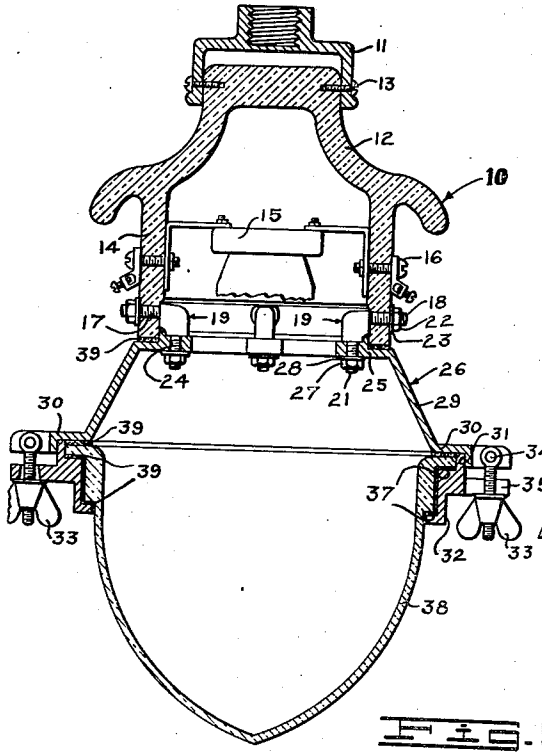


FIG. 5

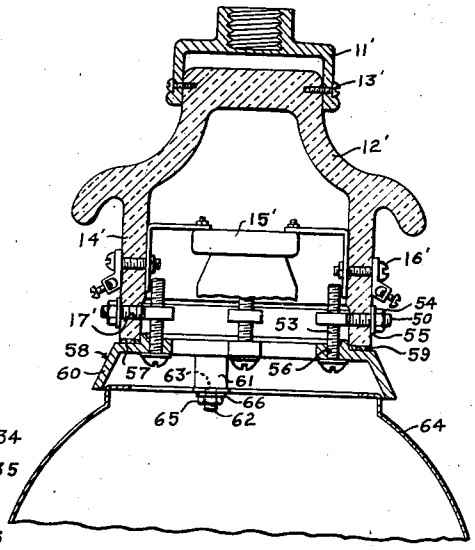


FIG. 6

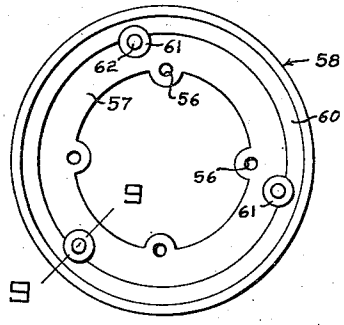


FIG. 9

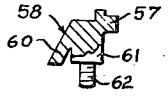


FIG. 2

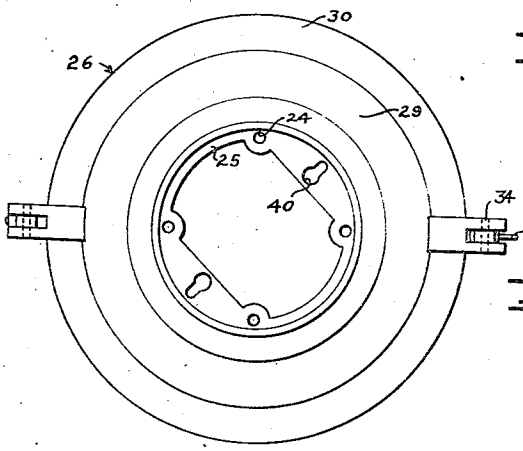


FIG. 3

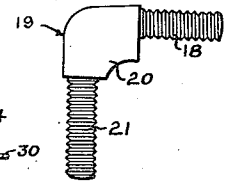


FIG. 7

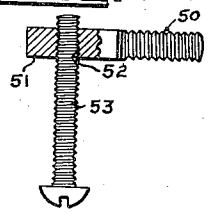


FIG. 4

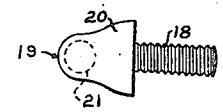
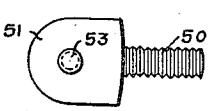


FIG. 8



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Patented Dec. 2, 1941 2,264,556

UNITED STATES PATENT OFFICE

2,264,556

COLLAR SUPPORT

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Application January 15, 1940, Serial No. 313,942

3 Claims. (Cl. 240—25)

This invention relates to securing means for a collar support particularly adapted for use in street light head assemblies of the reflector or refractor type.

The general object of the invention is to provide an improved adjustable securing means for a collar support particularly adapted for use in street light head assemblies.

A more specific object of the invention is to provide improved securing means for attaching the reflector and/or refractor unit to the porcelain head in a street light head assembly.

Another object of the invention is to provide a unit adapted for use with either a reflector or a refractor unit in securing portions of a street light in place.

Other objects and the advantages of my invention will be apparent from the following description taken in connection with the accompanying drawing, wherein:

Fig. 1 is a central sectional view of a street light head assembly showing my invention;

Fig. 2 is a top plan view of the collar;

Fig. 3 is a side elevation of one of my improved securing brackets;

Fig. 4 is a top plan view of the securing brackets shown in Fig. 3;

Fig. 5 is a central sectional view of a street light head assembly showing a modified form of my invention;

Fig. 6 is a bottom plan view of the collar shown in Fig. 5;

Fig. 7 is a side elevation of one of the modified securing brackets shown in Fig. 5;

Fig. 8 is a top plan view of the modified securing bracket shown in Fig. 7; and

Fig. 9 is a sectional view taken on line 9—9, Fig. 6.

Referring to the drawing by reference characters I have shown my improved securing means as embodied in a street light head assembly indicated generally at 10. As shown the head assembly 10 includes a canopy 11 adapted to engage a bracket (not shown).

Depending from the canopy 11 is a hollow porcelain head 12 secured thereto as by screws 13 and including a depending skirt portion 14. Positioned within the head 12 is a light bulb receptacle assembly 15 secured thereto as by screws 16.

The skirt 14 includes radial apertures 17, each aperture being adapted to receive one leg 18 of one of my improved securing brackets 19. As shown in Figs. 3 and 4 each securing bracket 19 includes a body portion 20 and two threaded legs 18 and 21 projecting therefrom substantially at right angles to each other. Nuts 22 secure the screws 19 to the skirt 14. Washers 23 are preferably placed beneath the units 22.

The legs 21 of the brackets 19 engage apertures 24 in an upper flange portion 25 of a refractor collar 26 and are secured thereto by nuts 27 with washers 28. The refractor collar 26 includes the upper flange portion 25 engageable with the skirt 14, an intermediate conical skirt portion 29 and a lower flange portion 30 recessed as at 31 on the lower side thereof to receive a retaining ring 32. The ring 32 is removably secured as by screw and wing-nut assemblies 33 pivoted to the flange 30 as at 34 and engaging lugs 35 on the retaining ring 32.

The retaining ring 32 includes shoulders 37 adapted to engage a refractor 38. Suitable packing material 39 is disposed between the flange 25 and the skirt 14 and between the refractor 38, the flange 30 and the shoulders 37 as shown.

It will be seen that the screws 19 are firmly secured to the skirt portion 14 and that the flange 25 of the collar 26 may be held in close engagement with the skirt 14 by the nuts 27 thereby providing a secure joint between the porcelain head and the metallic reflector ring.

The flange 25 of the refractor collar 26 further includes apertures 40 of the shape shown in Fig. 2. Through various combinations of the apertures 24 and 40 the refractor collar 26 is adapted for use with porcelain or other heads having various arrangements of apertures 17 thereon.

In Fig. 5 I have shown a modified form of securing means as embodied in a somewhat different type of street light head assembly from that previously described. Parts similar to those previously described are designated by similar primed reference characters.

Positioned within the apertures 17' in the skirt 14' I provide bracket members 50 having threaded shank and enlarged head portions 51 thereon. As shown in Figs. 7 and 8 the head portion 51 of each bracket member 50 has a threaded aperture 52 therein engageable with a screw 53. The axis of the shank of the member 50 is substantially at right angles to the screw 53. The members 50 are inserted through apertures 17' and are secured by washers 54 and nuts 55.

The screws 53 engage in apertures 55 in a flange 57 of a reflector retaining collar 58. The flange 57 is engageable with the skirt 14' suitable packing material 59 being disposed therebetween.

The reflector retaining collar 58 includes a skirt portion 60 from which bosses 61 extend. The bosses 61 support threaded members 62 which engage apertures 63 in a reflector member 64 and are secured thereto by nuts 65 and washers 66.

It will be seen that the collar 58 is securely held in position adjacent the skirt 14' by my improved securing means forming a secure joint between the porcelain head and the metallic reflector retaining ring. In both types the bracket permits the ring to be drawn tightly against the porcelain so that shifting with consequent breaking of the porcelain is avoided.

From the foregoing description it will be apparent that I have invented a novel securing means which can be economically made and which is highly effective for the intended use.

Having thus described my invention, I claim:

1. In a street light assembly, a canopy, a hollow vitreous head depending therefrom, said head including a lower skirt portion, a lamp bulb receptacle positioned within said head and secured thereto, said skirt portion including spaced radial apertures, a plurality of brackets each including a threaded leg positioned in one of said apertures and secured by a nut, each bracket including a second threaded leg arranged substantially at right angles to the first leg, a collar having a flange engaging said skirt portion, said flange having spaced apertures receiving said second legs, nuts on said second legs and a refractor mounted in said collar.

2. In a street light head assembly, a head including a lower skirt portion, said skirt having radial apertures, a bracket including a threaded shank positioned in each of said apertures and secured by a nut, each of said brackets including an enlarged head portion with a threaded aperture therein, a screw engaging said threaded aperture and disposed substantially at right angles to said shank, a flanged reflector supporting collar having apertures, said flange engaging said skirt and said screws passing through said flange apertures to hold the collar in place.

3. In a street light assembly, a canopy, a hollow vitreous head depending therefrom, said head including a lower skirt portion, a lamp bulb receptacle positioned within said head and secured thereto, said skirt portion including spaced radial apertures, a plurality of fastening members each including a threaded leg positioned in one of said apertures and secured by a nut, each fastening member including a second threaded leg arranged substantially at right angles to the first leg, a collar having a flange engaging said skirt portion, said flange having spaced apertures receiving said second legs.

GEORGE H. SEAL.