May 2, 1933. G. E. ARBOGAST 1,906,508

ORNAMENTAL LIGHTING STANDARD

Filed Sept. 2, 1930

Fig. 1.

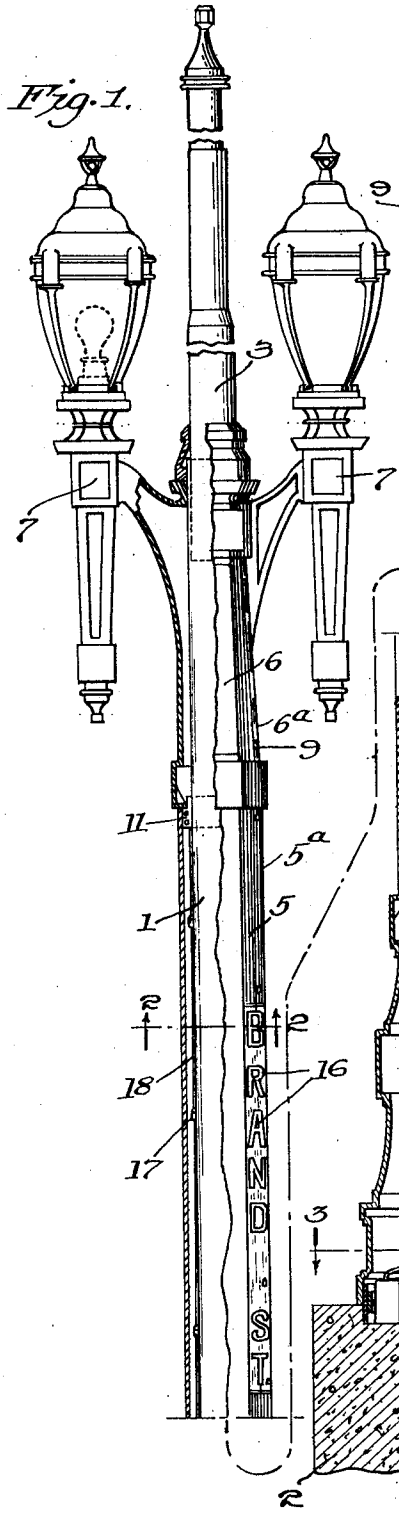


Fig. 2

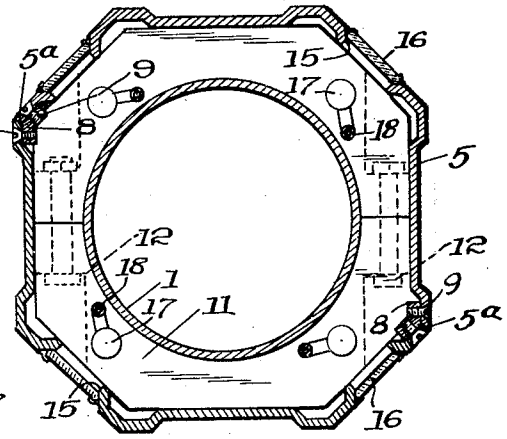
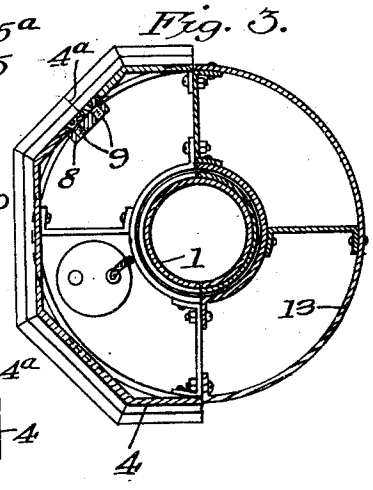
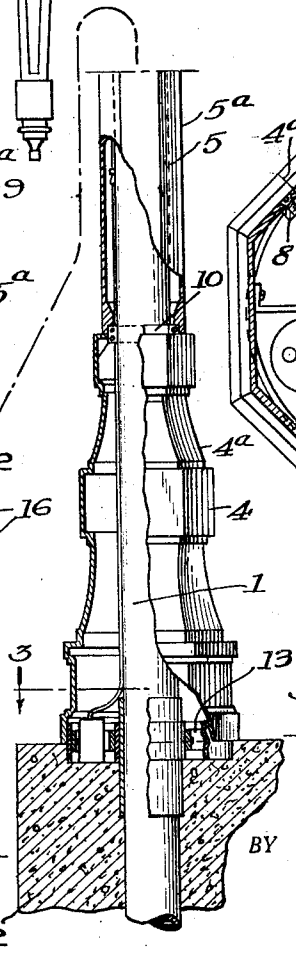


Fig. 3.





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UNITED STATES PATENT OFFICE

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ORNAMENTAL LIGHTING STANDARD

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This invention is an ornamental lighting standard, and has for its object the ready replacement of any part of the standard which may be damaged through collision by a vehicle, etc., without disturbing the assembly of any remaining parts of the standard which have not suffered damage and which it is therefore unnecessary to replace.

More particularly it is an object of the invention to provide a standard comprising separate sections mounted axially one beyond another and adapted for ready replacement of any one or more sections without disturbing the operative assembly of the remaining sections.

It is a still further object of the invention to provide a standard comprising a central supporting element and an ornamental shell adapted for mounting on the central support, with the central support preferably an integral structure and the ornamental shell comprising a plurality of sections adapted for mounting axially one beyond another on the central support, with any one of said sections readily replaceable without disturbing the assembly of the remaining sections.

It is a still further object of the invention to arrange each of the sections of the ornamental shell as an annulus adapted to surround and enclose the central support, with each of said annuli comprising a plurality of cooperating arcuate elements adapted for detachable assembly so as to readily form a closed annulus.

It is a still further object of the invention to mount the sections of the ornamental shell on the central support by means of collars surrounding and fixed relative to the central support, with the sections of ornamental shell seated upon and supported by the respective collars so that any one section may be independently removed and replaced.

It is a still further object of the invention to provide the standard with street indicating means, preferably by forming openings in the ornamental shell adapted to receive transparent lettering which may be illuminated at night by suitable lamps in back of said lettering and mounted in the space between the central support and the surrounding shell.

Further objects of the invention will be readily understood from the following description of the accompanying drawing, in which:

Fig. 1 is a side elevation of the standard, partly in axial section.

Figs. 2 and 3 are transverse sections on the lines 2—2 and 3—3 of Fig. 1.

The standard comprises a central support which is preferably a unitary structure mounted on a suitable foundation, with an ornamental shell surrounding and fixed to the central support and comprising a plurality of separate sections mounted axially one beyond another, and each section of the ornamental shell comprising a split annulus adapted for operative assembly of its cooperating parts so as to surround the central support.

As an instance of this arrangement the central support may comprise a pipe 1 having its lower end embedded in a usual concrete foundation 2 and projecting upwardly to the desired height of the standard, with extension 3 projecting upwardly from the pipe 1 when so desired, and preferably forming an integral structure with the supporting pipe and providing a usual suspension means for trolley wires and the like.

In the present embodiment of the invention the sectional ornamental shell of the standard comprises three sections, the lower section being a base 4 surrounding pipe 1 and supported upon foundation 2 and projecting upwardly to any desired appreciable height, and the next section of the shell forming a shaft 5 of any desired length, surrounding pipe 1 and supported relative thereto axially next adjacent the base 4 but entirely independently thereof, and the third section of the shell being a capital or cross-arm 6 similarly mounted on pipe 1 next adjacent but independently of shaft 5, with the cross-arm 6 supporting illuminating elements such as usual pendants 7, and the pipe extension 3 projecting upwardly beyond the cross-arm 6 to any desired height.

Each of the sections of the ornamental

shell is adapted for ready assembly surrounding pipe 1, and for this purpose each of the sections is an annular structure comprising a plurality of cooperating parts adapted for detachable assembly so as to form a closed annulus. As an instance of this arrangement each of the sections 4, 5 and 6 may be split throughout its axial length as shown at 4*a*, 5*a* and 6*a* respectively, so that each section comprises cooperating semi-sections adapted to be detachably secured in assembled relation by suitable fastening means which are accessible from the exterior of the ornamental shell.

The fastening means may comprise plates 8 adapted to fit against the inner surface of the ornamental shell and overlap the splits of the assembled shell sections, with screws 9 projected through the ornamental shell from the exterior thereof and threaded into the plates 8 at the respective sides of the splits as shown in Fig. 2, so that the respective split sections 4, 5 and 6 may be readily independently assembled in operative relation.

The sections 4, 5 and 6 are also adapted for axial support independent of one another, and for this purpose collars 10 and 11 may be fixed on pipe 1, with the upper end of base 4 preferably snugly surrounding collar 10 and the shaft 5 axially supported on said collar, and the upper end of shaft 5 similarly snugly fitting around collar 11 which in turn axially supports the lower end of cross-arm 6.

The collars 10 and 11 may be fixed on pipe 1 in any usual manner, and in the present instance are shown as split collars adapted for clamping engagement of their cooperating halves by means of bolts 12, thereby providing for detachable mounting of the collars on pipe 1 at the proper position for supporting the shell sections 4, 5 and 6 in next adjacent axial assembly. The upper end of shell section 6 may snugly engage supporting pipe 1 as clearly shown in Fig. 1, and the lower end of shell section 4 is preferably maintained concentric with pipe 1 by means of a spider 13 which is adapted for mounting on the supporting pipe just above the foundation 2; and with the remote ends of shell sections 4 and 6 thus centered with relation to the supporting pipe, and the proximate ends of shell sections 4—5 and 5—6 similarly centered with relation to pipe 1 by means of collars 10 and 11 as previously described, the entire ornamental shell is adapted for mounting on pipe 1 exactly concentric therewith.

The shell of the standard may have an exterior contour providing any desired ornamentation, and in the present instance is shown as including a cylindrical cross-section at the lower part of base 4, and an octagonal cross-section throughout the remaining length of the standard; but it will be readily understood that the specific cross-sectional contour of the ornamental shell forms no part of the invention and may be varied at will as long as the axially split sections of the shell are adapted for assembly forming closed annuli surrounding and concealing the central supporting pipe 1.

The invention contemplates the provision of street indicating means on the ornamental shell of the standard, with said street indicating means adapted for illumination at night so as to be readily readable. For this purpose transparent lettering may be mounted in the ornamental shell with illuminating means in back of said lettering in the space between the central support and the surrounding shell. As an instance of this arrangement the shaft 5 may be provided with openings 15 adapted for reception of interchangeable transparent letters 16 so that any desired street name may be indicated, and a set of the openings 15 may be formed in one or more sides of shaft 5 in order that a plurality of street indicators, readable from different directions, may be provided on each standard. The letters 16 may be illuminated by usual electric lamps 17, and a series of said lamps may be arranged in back of each set of openings 15 with each series of lamps preferably mounted upon a bracket 18 which forms a conduit for the necessary electric wiring and extends along the central supporting pipe 1 through the space formed between the central support and the surrounding ornamental shell.

The invention as thus described provides an extremely practical and efficient lighting standard comprising a central support and a surrounding ornamental shell, with the shell adapted for ready replacement of any section thereof which may have been damaged, without disturbing the operative assembly of the remaining sections, and each section being adapted for convenient assembly of its cooperating split parts so as to form a closed annulus completely surrounding and concealing the central support and the plurality of superimposed separate sections defining a longitudinally continuous shell extending substantially the full height of the standard so as to include the capital or cross-arm at its upper end.

I claim:

1. A standard including a central support and an outer shell surrounding the central support, the outer shell comprising sections adapted for operative assembly longitudinally one beyond another, each of said sections being axially split and adapted for operative assembly of its cooperating parts so as to form a closed annulus, an abutment on the central support, one of the assembled sections being adapted to radially engage the abutment for centering said section with

relation to the central support, and the next upper assembled section being adapted to seat upon the abutment for supporting said section with relation to the central support entirely independently of the first mentioned assembled section.

2. A standard including a central support and an outer shell surrounding the central support, the outer shell comprising sections adapted for operative assembly longitudinally one beyond another, an abutment on the central support, one of the sections being adapted to radially engage the abutment for centering said section with relation to the central support, and a next adjacent section being adapted to longitudinally engage the abutment for supporting said section with relation to the central support entirely independently of the first mentioned section.

3. In a standard, an elongated shell, a second elongated shell comprising cooperating longitudinally extending parts adapted for detachable connection at their longitudinal meeting edges, and means for mounting the shells longitudinally one beyond another with the second shell adapted for removal and without longitudinal movement of the second shell but merely by relative lateral displacement of its cooperating longitudinally extending parts.

4. In a standard, an elongated shell, a second elongated shell comprising cooperating longitudinally extending parts adapted for detachable connection at their longitudinal meeting edges, and means for mounting the shells longitudinally one beyond another with the second shell adapted for removal without relative longitudinal movement of its cooperating parts but merely by relative lateral displacement of said parts, the said mounting means including abutments engaged by the respective ends of the second shell so as to offer no obstruction to relative lateral displacement of the cooperating longitudinally extending parts of the second shell.

5. In a standard, an elongated shell, a second elongated shell comprising cooperating longitudinally extending parts adapted for detachable connection at their longitudinal meeting edges, and means for mounting the shells longitudinally one beyond another, the said mounting means including abutments engaged by the respective ends of the second shell so as to offer no obstruction to relative lateral displacement of the cooperating longitudinally extending parts of the second shell, and one of said abutments being engaged by the second shell so as to support the shell.

6. In a standard, an elongated shell, a second elongated shell comprising cooperating longitudinally extending parts adapted for detachable connection at their longitudinal meeting edges, and means for mounting the shells longitudinally one beyond another, the said mounting means including abutments engaged by the respective ends of the second shell so as to offer no obstruction to relative lateral displacement of the cooperating longitudinally extending parts of the second shell, and one of said abutments being engaged by the second shell so as to center the shell.

7. In a standard, an elongated shell, a second elongated shell comprising cooperating longitudinally extending parts adapted for detachable connection at their longitudinal meeting edges, and means for mounting the shells longitudinally one beyond another, the said mounting means including abutments at the respective ends of the second shell, with said abutments each adapted for lateral contact by the inner surfaces of the cooperating longitudinally extending parts of the second shell but clear of the outer surface of said second shell when the latter is operatively assembled, whereby the cooperating longitudinally extending parts of the second shell are adapted for relative lateral displacement with relation to the abutments.

8. In a standard, superimposed elongated shells each comprising cooperating longitudinally extending parts adapted for detachable connection at their longitudinal meeting edges, each of said shells being adapted for removal without relative longitudinal movement of its cooperating parts but merely by relative lateral displacement of its cooperating longitudinally extending parts.

9. In a standard, superimposed elongated shells each comprising cooperating longitudinally extending parts adapted for detachable connection at their longitudinal meeting edges, an abutment between the superimposed shells with said abutment adapted for lateral contact by the inner surfaces of the cooperating longitudinally extending parts of the respective shells but clear of the outer surfaces of said shells when the latter are operatively assembled, whereby the cooperating longitudinally extending parts of the respective shells are adapted for relative lateral displacement with relation to the abutment.

10. In a standard, a central support, an elongated shell, a second elongated shell comprising cooperating longitudinally extending parts adapted for detachable connection at their longitudinal meeting edges, and means for mounting the shells on the central support longitudinally one beyond another with the second shell adapted for removal without longitudinal movement of the second shell but merely by relative lateral displacement of its cooperating longitudinally extending parts.

11. In a standard, a central support, an

elongated shell, a second elongated shell comprising cooperating longitudinally extending parts adapted for detachable connection at their longitudinal meeting edges, and means for mounting the shells on the central support longitudinally one beyond another, the said mounting means comprising an abutment supported on the central support independently of the first shell and positioned between the proximate ends of the shells, with said abutment adapted for lateral contact by the inner surfaces of the cooperating longitudinally extending parts of the second shell but clear of the outer surface of said second shell when the latter is operatively assembled, whereby the cooperating longitudinally extending parts of the second shell are adapted for relative lateral displacement with relation to the abutment.

12. In a standard, a central support, elongated shells each comprising cooperating longitudinally extending parts adapted for detachable connection at their longitudinal meeting edges, and means for mounting the shells on the central support longitudinally one beyond another, the said mounting means comprising an abutment on the central support between the proximate ends of the shells, with said abutment adapted for lateral contact by the inner surfaces of the cooperating longitudinally extending parts of the respective shells but clear of the outer surfaces of said shells when the latter are operatively assembled, whereby the cooperating longitudinally extending parts of the respective shells are adapted for relative lateral expansion and displacement with relation to the abutment.

13. In a standard, a central support, elongated shells surrounding the central support longitudinally one beyond another, and an abutment supported by the central support independently of the shells, one of said shells being adapted to releasably longitudinally engage the abutment for detachably supporting said shell with relation to the central support entirely independently of the other shell.

14. In a standard, a central support, elongated shells surrounding the central support longitudinally one beyond another, and an abutment supported by the central support independently of the shells, one of said shells being adapted to releasably radially and longitudinally engage the abutment for centering and detachably supporting said shell with relation to the central support entirely independently of the other shell.

15. In a standard, a central support, a shell surrounding the central support, and an abutment supported by the central support independently of the shell, the shell being adapted to releasably longitudinally engage the abutment for detachably supporting said shell with relation to the central support.

16. In a standard, a central support, a shell surrounding the central support, and an abutment supported by the central support independently of the shell, the shell being adapted to releasably radially and longitudinally engage the abutment for centering and detachably supporting said shell with relation to the central support.

In testimony whereof I have affixed my signature.

GLEN E. ARBOGAST.