Sept. 22, 1936. J. T. SEYLER 2,054,887

END FITTING FOR MAST ARMS

Filed Dec. 10, 1934

Fig. 2.

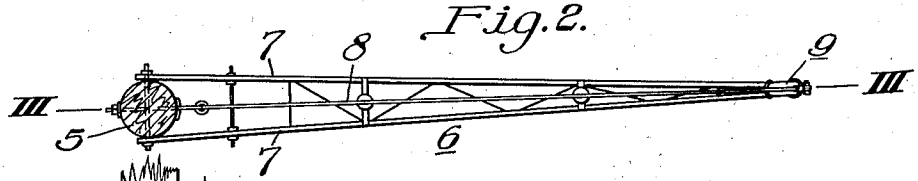


Fig. 1.

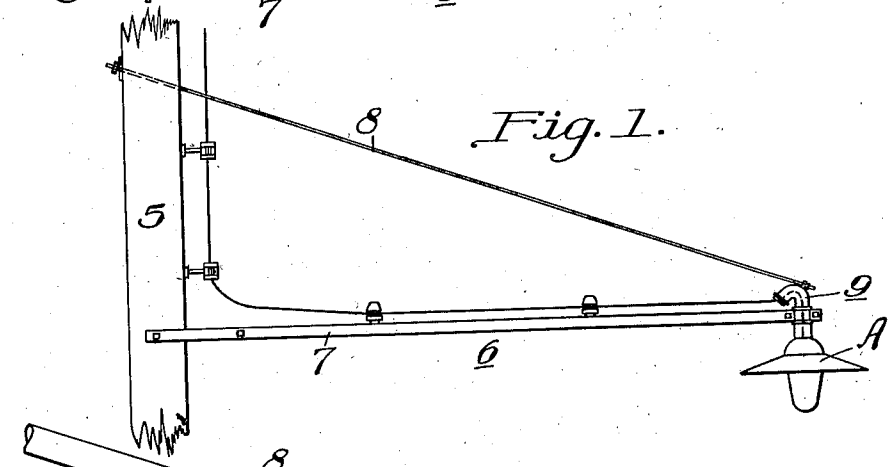


Fig. 3.

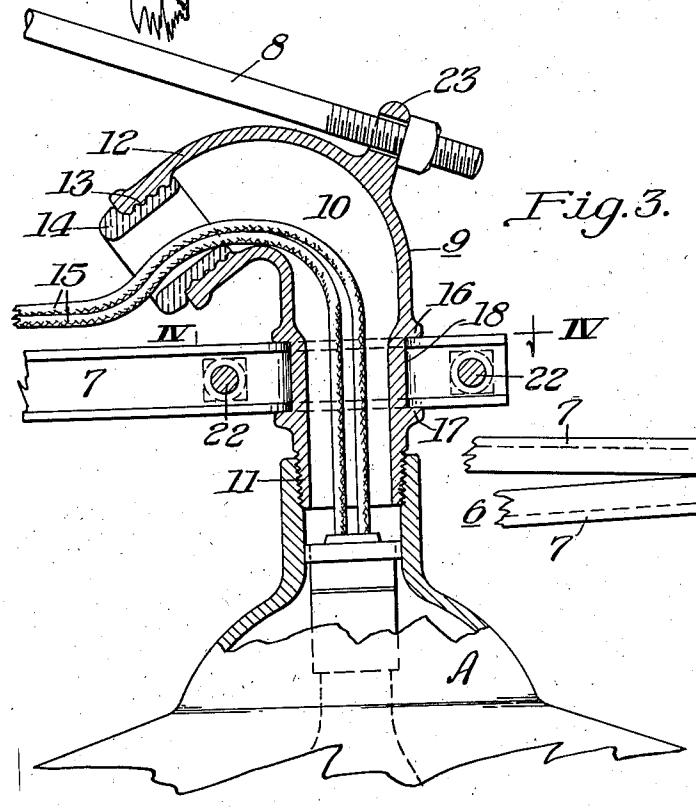
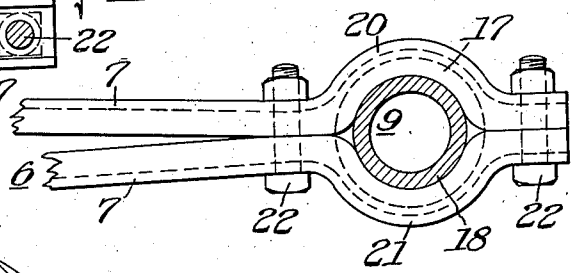


Fig. 4.



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END FITTING FOR MAST ARMS

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Application December 10, 1934, Serial No. 756,783

4 Claims. (Cl. 248—342)

This invention relates to an end fitting for mast arms and more particularly to a new and improved fitting especially designed for use in connection with truss type mast arms and inner wired lamps.

With the employment of inner wired lamps fixedly suspended or supported by mast arms, considerable trouble has been heretofore encountered due primarily to moisture entering the lamp structure, and, one of the prime objects of the present invention is the provision of a construction to prevent water and dampness entering the lamp.

A further object is to provide an end fitting of the character stated which may be readily applied to and removed from a mast arm, particularly mast arms of the truss type having a pair of angularly disposed side members.

Further objects are to provide a device of the character stated of simple, inexpensive and durable construction.

In the accompanying drawing which illustrates an application of my invention:

Fig. 1 is a side elevational view of a mast arm and an end fitting structure in accordance with my invention, showing the arm connected with a pole and a lamp supported by the end fitting;

Fig. 2, a top plan view of the same;

Fig. 3, a vertical sectional view taken on the line III—III of Fig. 2, particularly showing the end fitting, the end of the mast arm, and a portion of the inner wired lamp; and

Fig. 4, a part plan and a part sectional view taken on the line IV—IV of Fig. 3, particularly showing the outer end of the mast arm and the manner of securing the fitting thereon.

Referring to the drawing, 5 designates a mast or pole to which a mast arm or bracket 6 is secured, said mast arm being of the truss type and comprising a pair of angularly related trussed or braced channel members 7 secured on either side of the pole at one end and joined together at the other end. 8 designates a guy rod or brace secured to the pole for maintaining the mast arm in substantially horizontal position.

For the purpose of fixedly supporting or suspending an inner wired lamp A from the outer end of the arm 6, I provide a member generally designated 9 and known as an end fitting. This fitting generally comprises a hollow tubular body 10 having a lower terminal threaded portion 11 for engagement with the lamp structure, and an upper downwardly curved or extended overhanging portion 12.

The overhanging portion 12 is open at its downturned terminal end and is internally threaded as at 13 for receiving and retaining a porcelain insulator sleeve or bushing 14, through which bushing the electric wires 15 are introduced for passage through the fitting 9, first in an upward and then in a downward direction for connection with the socket portion of the inner wired lamp A.

The downward disposition of the terminal end of the overhanging portion 12 prevents rain, snow, sleet and the like from entering the fitting and the passage of water or moisture to the lamp, said overhanging portion receiving and discharging the rain, etc. away from the body of the fitting and the lamp. The danger of short circuits and the destructive effect of corrosion are eliminated by the use of my invention in connection with inner wired lamps.

Midway of the tubular body 10 and below the overhanging portion 12, I provide spaced annular abutments or flanges 16 and 17 and an intervening cylindrical portion 18. 20 and 21 designate opposed semi-circular portions formed in the members 7 of the mast arm adjacent the outer ends thereof and function to provide embracing engagement with the cylindrical portion 18 of the body.

The distance between the abutments 16 and 17 is substantially equal to the width of the channel members 7 of the arm 6, so that when the portion 18 of the fitting is embraced by the curved portions 20 and 21, the fitting is secured against vertical movement in the arm. Bolts 22 are provided at either side of the fitting, passing through the contacting ends of the mast arm channels 7, for clamping said portions 20 and 21 about the fitting.

To provide for a rigid construction and to connect the mast, mast arm and fitting into a unitary structure, I provide an apertured lug 23 projecting upwardly from the exterior surface of the fitting 10 for receiving the lower end of the guy rod 8 extending in an inclined direction from the mast or pole 5.

I claim:

1. An end fitting for suspending an inner wired lamp including a hollow body for receiving the wiring for the lamp, said body having means for engagement with the lamp and having an extended overhanging portion for discharging rain and the like away from and preventing entrance thereof to the body of the fitting and lamp, and means on the body intermediate the overhanging portion and lamp-engaging means, for engaging a mast arm.

2. An end fitting for suspending an inner wired lamp including a hollow body having means for engagement with the lamp, said body also having an extended overhanging portion formed with a down-turned open terminal end through which wiring is introduced to the lamp, said overhanging portion and its down-turned terminal end acting to discharge rain and the like away from and preventing entrance of moisture to the interior of the fitting and lamp, and spaced abutments on the body intermediate the overhanging portion and lamp-engaging means, adapted for engaging a mast arm.

3. The combination with a mast having a mast arm extending therefrom, of an end fitting for said arm comprising a hollow body secured in the outer end of the arm and having means at the lower end thereof for engagement with an inner wired lamp, said body also having an extended overhanging portion formed with a down-turned open terminal end for the introduction of wiring to the lamp, said overhanging portion and its down-turned end disposed above the horizontal plane of the arm and preventing the entrance of rain and the like to the fitting and lamp, said fitting having an external apertured lug thereon, and a guy rod extending from the mast and secured to said lug whereby the mast, mast arm and fitting are joined to form a unitary rigid structure.

4. The combination with a mast arm formed with an end fitting receiving opening, of an end fitting for suspending an inner wired lamp entered in said opening including a hollow body having means at the lower end thereof for engagement with the lamp, an upper overhanging portion above the horizontal plane of the arm, and intermediate means for engagement with the walls of the opening of the mast arm.

JOHN T. SEYLER.