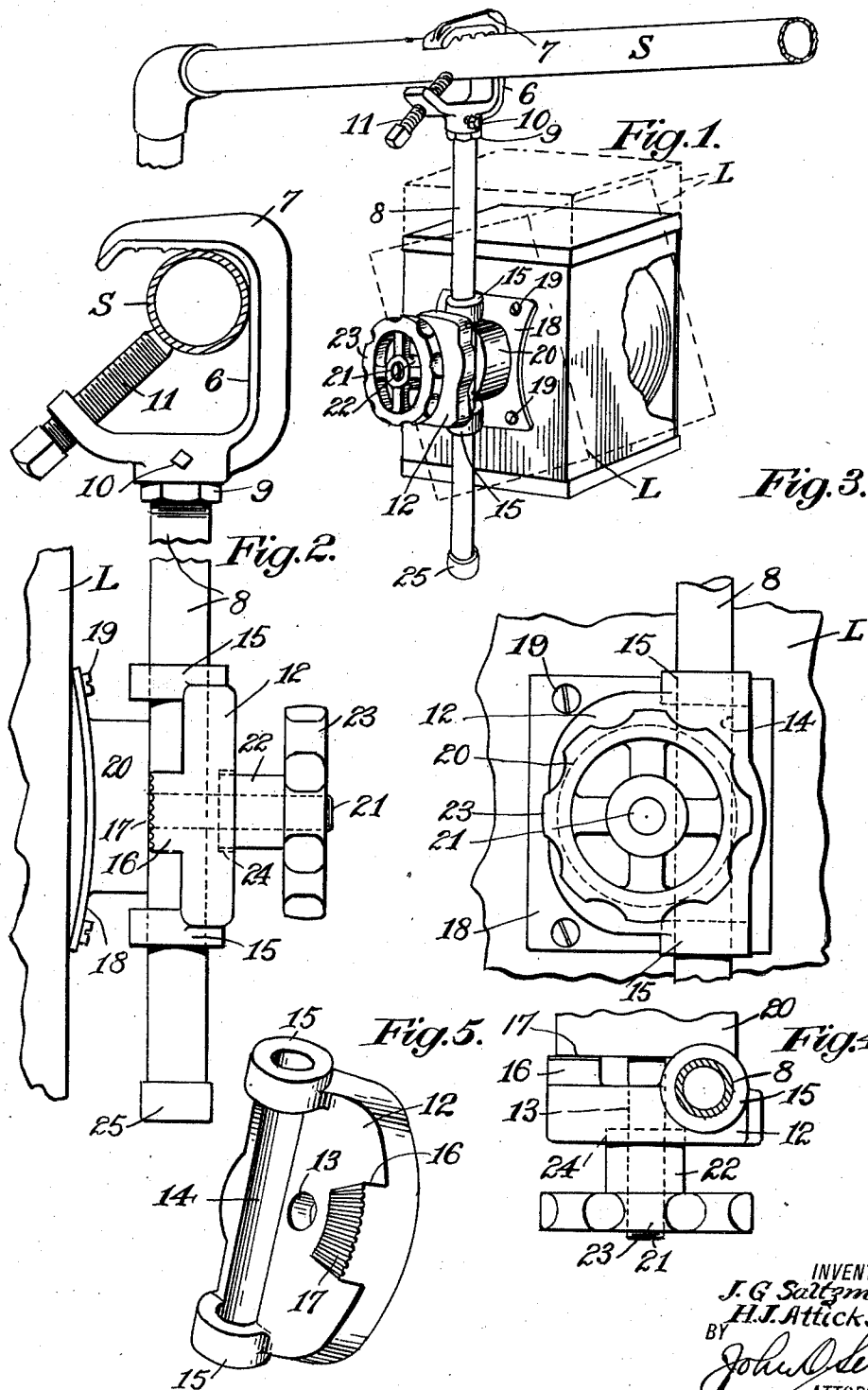


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H. J. ATTICKS ET AL
MOUNTING OF LAMP HOUSINGS
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MOUNTING OF LAMP HOUSINGS

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This invention relates to mounting means for the adjustable supporting of lamp housings, especially spot and flood light lamp housings used for lighting effects on stages of theatres.

It is the practice to mount housings for spot and flood lights from aloft in the wings of the theatre to illuminate the stage by supporting the lamp housings from a horizontal support, usually consisting of a pipe, by means of a carrier comprising a bar or tube connected at one end to a hanger or clamp member adapted for releasable engagement and securing to the horizontal support, the opposite end of the carrier having fixed thereon a circular clamp member arranged with radial grooves in one face and perforated transversely of the axis of the carrier to receive a threaded stud extending laterally from a bracket fixed to the lamp housing and secured on said stud by the engagement of a clamping wheel on the threaded end of the stud. In this arrangement only rotative adjustment on an axis transverse to the axis of the lamp carrier, or in a vertical plane of the lamp housing is permissible.

It is the object of the present invention to provide means for mounting a lamp housing on a supporting carrier therefor that will permit of the adjustment of the lamp housing on the carrier not only in a vertical plane but also in a horizontal plane and longitudinally of the carrier to elevate and lower the position of the lamp housing on the carrier and adapted to firmly secure the lamp housing in adjusted position on the carrier.

Other objects and advantages will hereinafter appear.

In carrying out the invention there is provided a carrier embodying a head or clamping member with a rod or tube connected thereto, the head being adapted for engagement of a support, such as a pipe, with the rod or tube extending laterally therefrom and along which support the carrier is adjustable and secured in adjusted position by a clamping screw threaded into the head and engageable with the support to draw the clamp head thereto. A bracket, in the nature of a clamp member, is fixed to the lamp housing said

bracket having a threaded stud extending laterally from a clamping face arranged on the bracket for engagement in a central opening in a clamping member for the mounting thereof upon the stud in operative relation to the clamp face of the bracket, said latter clamp member comprising a plate having perforated ears arranged at opposite edges and extending laterally of a face of the plate in opposed relation to the clamp plate of the bracket, with the perforation in the ears in alinement with a recess in the plate at one side of the perforation therein and adapted for engagement of the carrier rod to mount the clamp member thereon to have adjustment longitudinally of and about the carrier rod, the clamp plate also having a clamp jaw projecting from the face of the plate at the side of the opening opposite to the recess, the clamp members being moved into and out of carrier rod clamping position by the hub of a hand wheel having a threaded connection with the stud engaging the clamp member mounted on the stud and drawing said member to the clamp face on the bracket.

In the drawing accompanying and forming a part of this application Figure 1 is a perspective view of a lamp housing mounted by the improved mounting means on a carrier and the latter mounted on a horizontal support.

Figure 2 is a side elevation, on an enlarged scale, of the improved mounting means showing the manner of securing the lamp housing carrying bracket to the carrier, only part of the lamp housing being shown.

Figure 3 is a view looking at the right of Figure 2 with the upper portion of the carrier broken away.

Figure 4 is a view looking at the top of Figure 3; and

Figure 5 is a perspective view of the clamp member mounted on the carrier member.

Similar characters of reference designate like parts throughout the different views of the drawing.

In the embodiment of the invention illustrated in the drawing the carrier for the lamp housing comprises a head 6 in the form of a yoke having one leg arranged as a clamp jaw

7 with the inner surface roughened to form a gripping face, a tube or rod 8 having a releasable connection, such as a screw threaded connection, at one end with a boss extending laterally from the leg of the head opposite to the clamp jaw, as at 9, and secured therein by a set screw 10. The carrier is mounted on a support S, shown as a pipe, by engaging the carrier head thereon to mount the carrier on the support to be suspended therefrom or to extend in any other desired position laterally of the support, the carrier being secured in position on the support by a clamp screw 11 threaded into the leg of the head 6 to extend in a direction diagonally of the jaw 7 to engage the support and draw such jaw in firm clamping engagement with the support.

A lamp housing L is mounted on the carrier rod 8 for universal and longitudinal adjustment thereon. For this purpose a clamp member is provided comprising a plate or body portion 12 arranged with a central perforation 13 and a recess 14, preferably of circular shape in cross section, extending transversely of a face of the clamp body at one side of the opening. Perforated lugs or ears 15 integral with the body are arranged at opposite edge portions of the body to extend laterally of the face of the body having the recess 14 therein and with the perforations in the ears in alinement with said recess and adapted for the engagement of the carrier rod 8 to mount said clamp member thereon to have slidable adjustment longitudinally of and rotative adjustment about said carrier rod. It will be noted that a lateral portion of the carrier rod 8 engages in the recess 14 and an opposite lateral portion of the rod extends beyond the face of the clamp plate. A clamping jaw in the form of a lug 16 extends from the face of the body having the recess and at the side of the opening opposite to the recess, said jaw extending from the face of the clamp plate a distance substantially equal to the portion of the carrier rod extending laterally from the face of the clamping plate with the face of the jaw arranged with transverse serrations 17.

The lamp housing is supported from the carrier rod 8 through the clamp member 12 to have adjustment on said member about an axis transverse to the axis of the carrier rod and with said clamp member longitudinally or parallelly of the carrier rod and about the same by means of a bracket embodying a plate portion 18 having perforations for the engagement of screws 19 having threaded connection with the lamp housing to mount the bracket thereon. The plate portion is arranged with a laterally extended portion 20, which is in the nature of a clamp member, with a threaded stud 21 extending laterally therefrom for engagement in the central opening in the body of the clamp member 12

with the jaw face thereof in opposed relation to the recessed face of said clamp member, and the housing supporting bracket releasably retained thereon by the end of a hub 22 of a hand 23 threaded onto the stud 21 engaging an annular enlargement or recess in the outer face of the clamp member 12, as at 34. By advancing the hand wheel onto the stud 21 the clamp jaw or extended portion 20 of the bracket and a wall of the recess 14 of the clamp member 12 are firmly drawn to the carrier rod 8 securely clamping the same and thereby the lamp housing upon the carrier rod. To adjust the lamp housing it is only necessary to release the clamping members by backing off the hand wheel from the stud 21. To prevent the clamp member 12 from accidentally sliding off from the carrier rod an abutment 25 is fixed to the end thereof, this abutment serving as a stop and support for the lamp housing supporting means should the same become loosened upon the carrier.

While we have illustrated one embodiment of the invention it will be obvious that various modifications may be made in construction and arrangement of parts without departing from the scope of the invention.

Having thus described our invention we claim:

1. In supporting means for a lamp housing, a carrier embodying a clamp member for mounting on a support and a rod secured to the clamp member, and means for mounting a lamp housing on the carrier for adjustment parallelly and universally thereof, comprising a clamp plate having a central perforation and perforated spaced ears extending laterally from a face of the plate in alined arrangement at one side of the perforation for engagement of the carrier rod to mount the plate thereon to have adjustment longitudinally of and about the rod, a bracket embodying a plate portion for mounting of a lamp housing thereon and arranged as a clamp member having a laterally extending stud for engagement in the perforation of the clamp plate for adjustment about an axis transverse of the axis of the carrier rod, and means engaged on the stud at the outer side of the clamp plate to draw said plate and the lamp housing carrying bracket to and secure the lamp housing in adjusted position on the carrier rod.

2. In supporting means for a lamp housing, a carrier embodying a clamp member for mounting on a support and a rod secured to the clamp member, and means for mounting a lamp housing on the carrier for adjustment parallelly and universally thereof, comprising a clamp plate having a central perforation, a transverse recess in one face of the plate at one side of the perforation, perforated ears extending laterally from the plate at opposite ends of and in alinement with the recess for engagement of the carrier

rod to slidably and rotatably mount the plate
on the rod, a bracket having a plate portion
for mounting the lamp housing thereon and
arranged with a laterally projecting portion
5 to serve as a clamp member, said projecting
portion having a threaded stud extending
laterally thereof for engagement in the clamp
plate perforation for rotative adjustment of
the bracket on an axis transverse to the axis
10 of the carrier rod, and means having thread-
ed connection with the stud at the outer side
of the clamp plate for drawing the clamp
plate and member to the carrier rod to secure
the same thereon.

15 Signed at the city of New York, in the
county of New York and State of New York,
this 31st day of October, 1927.

HARRY J. ATTICKS.
JOSEPH G. SALTZMAN.

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