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2,265,792

LIGHT BRACKET

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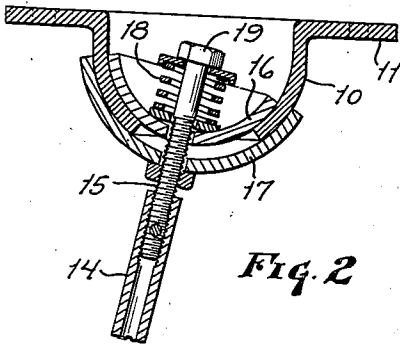


Fig. 2

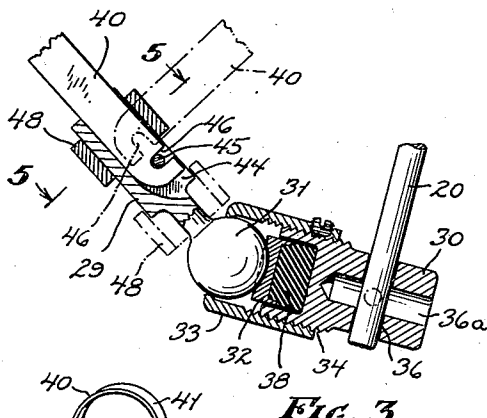
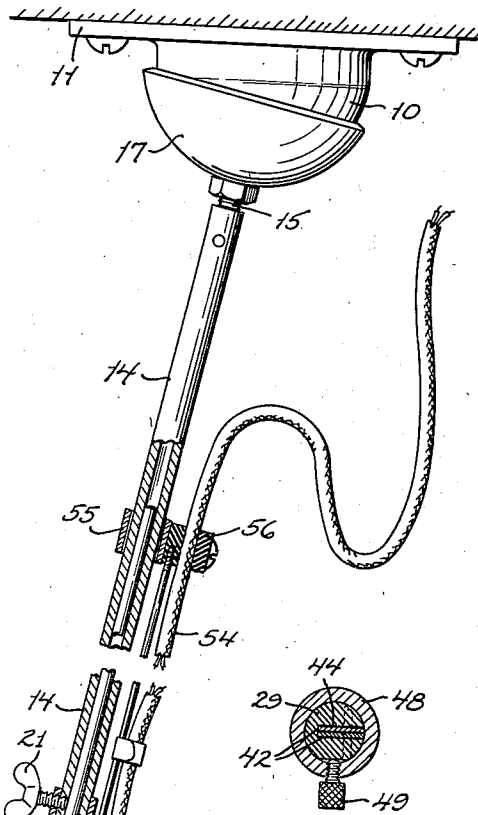


Fig. 3

Fig. 4

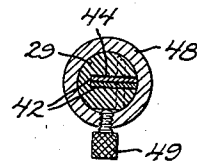


Fig. 5

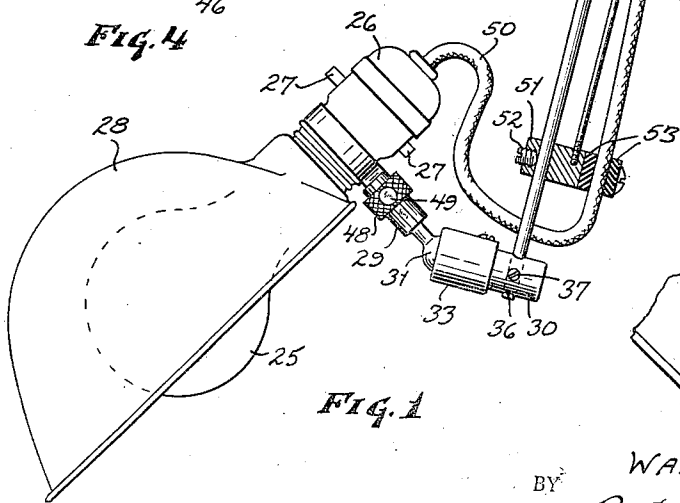


Fig. 1

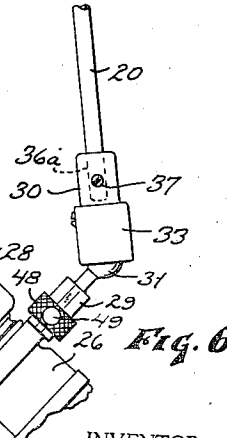


Fig. 6

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LIGHT BRACKET

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2 Claims. (Cl. 240—68)

This invention relates to a lighting device and more particularly to an electric light bracket or support. The general object of the present invention is to provide a simplified and improved construction which may be readily mounted upon a wall, ceiling, workbench or other surface and which will be quickly and conveniently shiftable and adjustable to meet various lighting requirements.

Another object of the present invention is to provide an adjustable electric lamp bracket or support which will protect the light cord and yet facilitate the replacement thereof.

A further object of this invention is to provide an improved adjustable electric light bracket from which a lamp socket or fixture may be quickly removed.

Other objects and advantages of the present invention will become more apparent from the following description, reference being had to a preferred embodiment of the invention illustrated in the accompanying drawing. The essential and novel features of the invention will be summarized in the claims.

In the drawing, Fig. 1 is a side elevation of my improved lamp bracket, certain parts being broken away to more clearly illustrate the internal construction of the device; Fig. 2 is an axial section through the base or surface attaching member; Fig. 3 is a fragmentary enlarged central section through the lamp fixture retainer, the plane of the section being parallel to that of Fig. 1; Fig. 4 is a perspective view of the lamp fixture clamping member; Fig. 5 is a transverse sectional detail, the plane of the section being indicated by the lines 5—5 on Fig. 3; Fig. 6 is a fragmentary elevation similar to Fig. 1, but illustrating a different position of the lamp fixture relative to the bracket.

The present invention is shown as being especially adapted for attachment to an overhead surface. In Figs. 1 and 2, I have shown a semi-spherical member 10 having a flange 11 which may be attached to the desired overhead or side wall surface by suitable bolts or screws. Adjustably supported from the member 10 is a telescopic arm, one portion of which comprises a tube 14. The tube 14 is carried by a stud 15 which extends through openings in plates 16 and 17. These plate portions of spheres are positioned in contact with the inner and outer surfaces respectively of the spherical member 10. A spring 18 disposed between the inner plate 16 and the head 19 of the stud 15 tensions the unit to permit a substantially universal movement of

the tube and at the same time retains the tube and lamp fixture carried thereby in any desired adjusted position.

Within the tube 14, I telescopically mount a rod 20, the lower end of which carries the lamp fixture as will be hereinafter described. The rod is adjustable axially of the tube to increase or decrease the distance from the lamp to the wall or supporting surface to which the flange 11 may be attached. When properly adjusted the rod is clamped in position relative to the tube 14 by a winged set screw 21 which is carried by the tube as illustrated in Fig. 1.

The lamp fixture is supported at the end of the rod 20 in such manner that it may be swung about the axis of the rod or moved universally relative to the rod. As illustrated, the lamp 25 is mounted in a socket 26 of the type now generally in use. This socket may be provided with the usual switch mechanism, not shown, but operable by control members 27. The socket may also support a reflector or shade generally indicated at 28.

The socket 26 is clamped to one member 29 of a ball and socket joint, the other member 30 of which is secured to the lower end of the rod 20. As illustrated in Figs. 1 and 3, the member 29 carries a ball 31 which is held in position against a friction surface 32 by a cap 33 which threadingly engages the member 30 as at 34. A resilient rubber or composition block 38 is positioned between the friction member and the member 29 to maintain the desired pressure between the contacting surfaces. A suitable set screw 35 secures the cap 33 in an adjusted position so that the socket may be manually swung to any desired position. The member 30 is provided with a pair of openings 36 and 36a which extend at right angles to each other. The rod 20 may be positioned in either of these openings, as illustrated in Figs. 1 and 6, thus greatly increasing the adjustability of the position of the lamp and reflector carried thereby. A set screw 37 secures the member 30 in the desired position relative to the rod 20.

As heretofore mentioned the socket 26 is secured to the member 29. For this purpose I prefer to provide an improved clamp which will enable the lamp and socket to be quickly detached from the bracket. This clamp is best illustrated in Figs. 1, 3, 4 and 5. As there shown, the clamp comprises a metal band 40 having an annular portion 41 which embraces the socket 26. The end portions of the band extend outward from the annular portion as shown at 42 in Fig. 4.

The arrangement is such that when the portions 42 are brought together the annular portion will grip the socket tightly.

The clamp 40 is quickly detachable from the member 29 of the ball and socket joint heretofore described. As illustrated in Figs. 3 and 4, the end portions 42 of the clamp 41 lay in a slot 44 in the member 29, and are restrained against axial movement by a pin 45 carried by the member 29, and coacting with notches 46 in the clamp. 10 A sleeve 48 prevents transverse movement of the clamp. When it is desired to remove the socket one slides the sleeve 48 to the dotted line position (Fig. 3) whereupon the clamp may likewise be swung to the dotted line position free from 15 the pin 45. If desired, the sleeve 48 may be provided with a set screw 49 to prevent inadvertent displacement of the parts.

The current carrying cord extends from the socket 26 in a loop 50 to a clamp 51 which is 20 secured to the rod 20 by a set screw 52. The cord engaging portions of the clamp 51 are preferably made of an insulating material as indicated at 53. From the clamp 51, the cord extends parallel with the rod as at 54 to a second 25 clamp 55. This latter clamp is slidably mounted on the tube 14 and is provided with insulation members 56 for engagement with the cord. The clamps 51 and 55 are maintained spaced from each other by a spacer rod 57. The cord thus is 30 at all times visible and may be easily removed from the bracket if desired and yet is at all times out of the path of the lamp.

I claim:

1. A lighting bracket comprising a base, an arm movably supported thereon, a lamp socket, a clamp for said lamp socket comprising an annular strip of metal, the ends of which extend radially outward, a retainer for the ends of said strip comprising a cylindrical member having an axially extending slot adapted and arranged to receive the ends of said annular strip, means 5 carried by said member and coacting with said strip to prevent movement of said strip axially of said member, means slidable axially of said member, to prevent said strip from moving radially relative to said member, and an adjustable connection between said member and said arm. 10

2. A lighting bracket comprising a base, an arm adjustably supported thereby, a lamp socket, a clamp for said lamp socket comprising an annular strip of metal, the ends of which extend radially outward and are each provided with a notch, a retainer for said annulus comprising a member having an elongated slot, adapted and arranged to receive the ends of said annular strip, a pin carried by said member and engaging the notches in said strip when said strip is 15 in position in the slot to prevent relative lengthwise movement between said strip and said member, a sleeve slidable on said member lengthwise relative to said slot to maintain said strip in 20 position on said pin or release it as desired. 25 30

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