O. M. OTTE.

SPOT LIGHT MOUNTING.

APPLICATION FILED JUNE 20, 1918.

1,288,153.

Patented Dec. 17, 1918

2 SHEETS—SHEET 1.

Fig. 1.

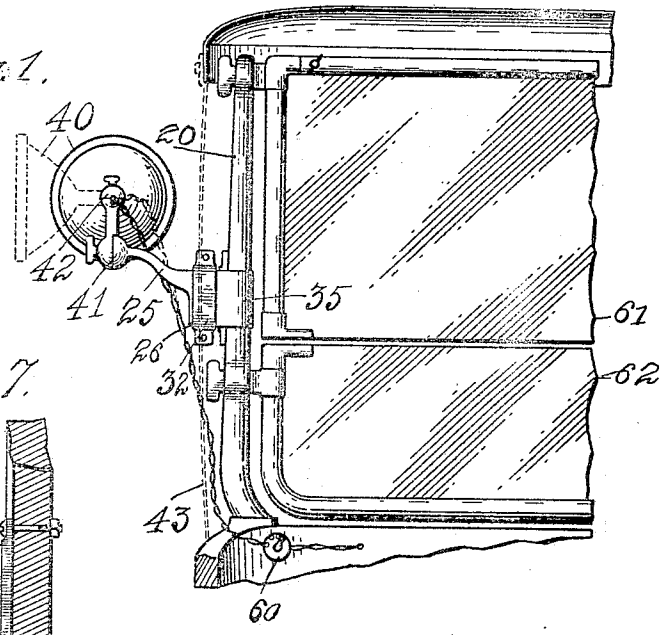


Fig. 7.

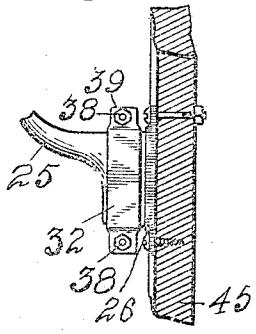


Fig. 2.

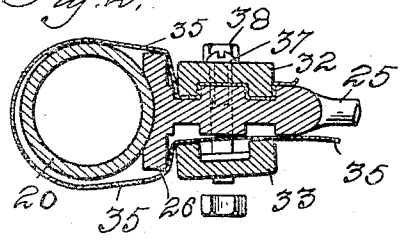


Fig. 3.

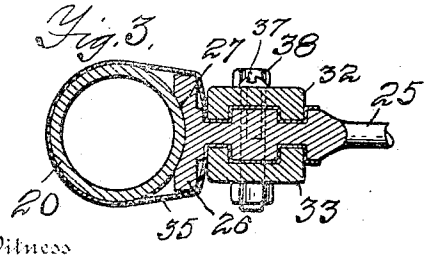


Fig. 4.

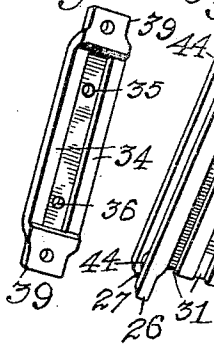


Fig. 5.

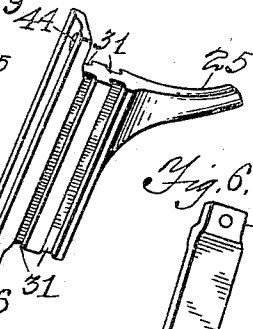
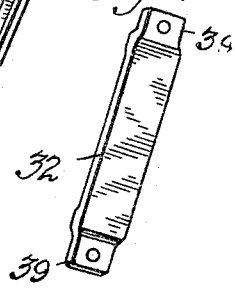


Fig. 6.



Witness

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2 SHEETS—SHEET 2.

Fig. 8.

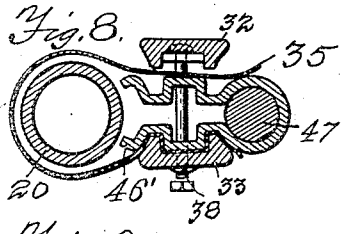


Fig. 9.

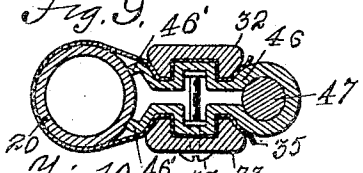


Fig. 10.

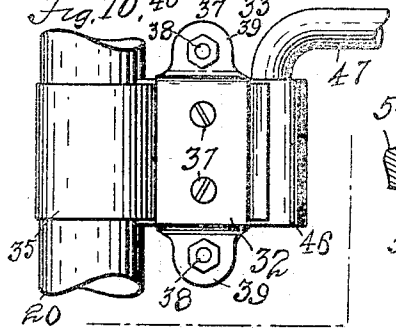


Fig. 11.

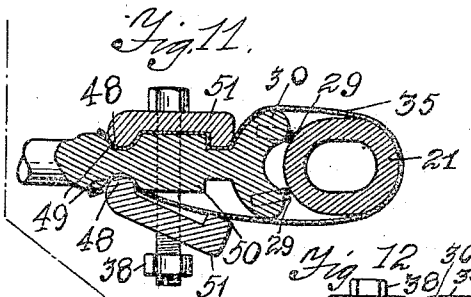


Fig. 12.

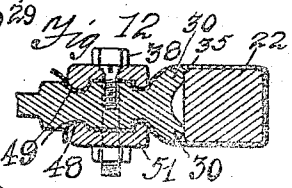


Fig. 13.

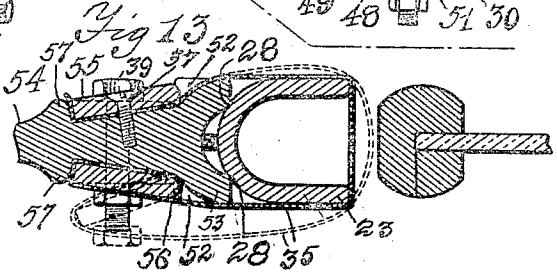


Fig. 14.

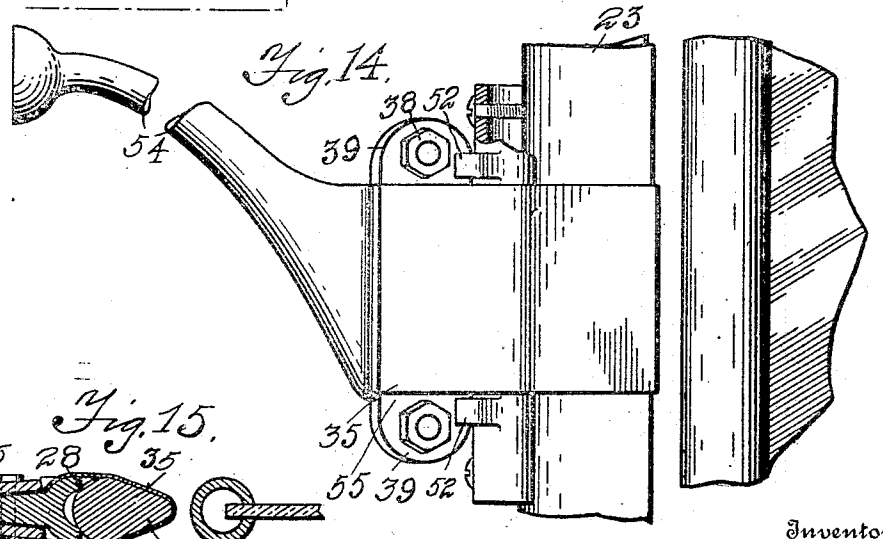


Fig. 15.

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UNITED STATES PATENT OFFICE.

OTHO M. OTTE, OF JAMESTOWN, NEW YORK.

SPOT-LIGHT MOUNTING.

1,283,153. Specification of Letters Patent. Patented Dec. 17, 1918.

Application filed June 20, 1918. Serial No. 241,048.

To all whom it may concern:

Be it known that I, OTHO M. OTTE, a citizen of the United States, residing at the city of Jamestown, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Spot-Light Mountings, of which the following, taken in connection with the accompanying drawings, is a specification.

The invention relates to spot-light mountings for automobiles and similar vehicles; and the invention consists in providing a spot-light mounting which adjustably clamps a supporting bracket arm for the spot-light to the windshield standard or any similar support around which a bendable sheet of metal may be attached by clamping the same to said arm; and the invention consists in the novel features and combinations hereinafter set forth and claimed.

In the drawings, Figure 1 is an elevation of the inner side of the windshield, a supporting portion of the top and body of the vehicle being shown in section, and showing the rear side of the spot-light, the adjustability of the mounting of the spot-light being illustrated in dotted outline. Fig. 2 is a central transverse sectional view of Fig. 1, showing the device before the clamping plates are tightened into position upon the bracket to thereby hold the flexible sheet metal clamping strip; and Fig. 3 is a similar sectional view showing the parts after the placing of the clamping plates and showing the flexible sheet metal strip drawn tightly about the round windshield standard in holding attachment. Figs. 4, 5 and 6 show perspective views of the parts of the preferred form of the clamping bracket showing the construction and arrangement of the same. Fig. 7 is a perspective view of the bracket mounting for the spot-light without the sheet metal clamping strip as attached to the body or other wood or metal portion of a vehicle, showing the adaptability of the mounting to all conditions. Figs. 8 and 9 are central transverse sectional views of Fig. 10 showing a modification of the bracket in which the heel of the bracket is struck up from sheet metal in a crosswise grooved U-shaped clamping piece over which clamping plates similar to those used in the preferred solid metal brackets are attached on each side to hold and draw the flexible sheet metal clamping strip around a standard or similar support, the resilience of the U-shaped clamping piece aiding the clamping plates in their draw upon said sheet metal strip, said U-shaped piece having a lamp supporting arm attached therein preferably by spot welding. Figs. 11, 12, 13, 14 and 15 show still further modifications of the bracket and clamping plates and their adaptability to different forms of standards including elliptical, rectangular, U-shaped and wedge-shaped, Figs. 11, 12, 13 and 15 showing crosswise sectional views through the clamping joint similar to Figs. 2 and 3, and Fig. 14 showing a side elevation of the modified form shown in Fig. 13 with its greater draw on the flexible sheet metal strip.

Like characters of reference refer to corresponding parts in the several views.

The numeral 20 designates the standard for a windshield, or similar support or upright to which the spot-light mounting may be attached by clamping around the same.

The standards 20 are usually round and tubular but are sometimes made elliptical as shown at 21, rectangular as shown at 22, U-shaped as shown at 23, or wedge-shaped as shown at 24, which modifications are shown in Figs. 11, 12, 13 and 15 in order to illustrate the adaptability of the means of attachment for the spot-light mounting to any form of support around which attachment may be made.

The spot-light mounting consists of a bracket arm which is designated by the numeral 25 and which has a channeled butt 26 in the preferred form for upright supports, which fits over the lengthwise rounded periphery of the usual form of windshield standard 20, as shown in Figs. 2, 3 and 5 in which the channel groove 27 is shaped to fit said standard. Modifications of the channeled butt 26 are shown in Figs. 9, 11, 12 and 13 in which the additional principle of providing sharp edges 28 or adjusting screws 29 to bite into the periphery of the supporting standard in holding engagement, said adjusting screws 29 being placed and adjusted in the modified form of butt 30 before attachment to the supporting standard.

The arm 25 has the double grooves 31 on each side thereof adjacent the butt 26 to receive in said grooves 31 the channeled clamping plates 32 and 33 which are shaped

to fit therein through their central portion, the extended ends 39 being provided with clamping bolts 38. The channeled edges 34 of the plates 32 and 33 fit sufficiently close in the grooves 31 to permit the insertion of yet firmly hold the ends of a flexible metallic strip 35 therebetween on each side. Holes 36 are provided through the arm 25 and channel plates 32 to receive the attaching screws 37 which extend through the clamping plate 32 into the arm 25 to thereby clamp and securely attach one end of the strip 35 in the grooves 31.

The other end of the strip 35 is extended around the standard or other support against which the butt 26 rests and the other clamping plate 33 is placed against the strip 35, said strip being drawn as tightly as possible before the bolts 38 are inserted through the extending ends 39 of the plates 32 and 33, after which said bolts 38 are tightened, thereby firmly drawing the sheet metal strip 35 around the standard and compressing the grooved butt 26 against the periphery of said standard and giving a firm support to said butt of the arm 25 and to the spot-light 40, which is adjustably mounted on the arm 25 by means of set screw clamps 41 for tilting and 42 for horizontal turning or adjusting the spot-light 40. The clamping plates 32 and arm 25 are so placed as not to interfere with the curtains 43, as shown in dotted line in Fig. 1.

The grooved butt 26 has screw holes 44 in each end thereof so that said butt of the arm 25 may be attached by screws or bolts to a wooden support 45 as, for example, the side of the body of an automobile or other vehicle without the use of the clamping strip 35, the plates 32 and 33 being preferably clamped around the arm 25 adjacent the butt 26 so that said arm may be removed and attached to a standard by the mere addition of the clamping strip 35 thereby rendering said butt adaptable to substantially all forms of supports.

In the modifications of the manner of attachment shown in Figs. 8 to 15 inclusive the butt of the arm 25 is adapted to different forms of standards and similar supports; also the simplification shown in Figs. 8, 9 and 10 is adapted to support the smaller lamps at low cost, in which construction the butt portion 46 of the arm 47 is struck up from sheet metal, as hereinbefore described, so that the inner edges 47 contact firmly against the periphery of the standard 20, said struck up butt 46 having grooves and outer clamping plates similar to grooves 31 and plates 32 which are used substantially the same as hereinbefore described except that the spring or resilience of the struck up U-shaped sheet metal clip or butt 46 gives added draw to the sheet metal strip 35 as it is clamped by the plates 32. The angular end of the arm 47 is received within the struck up butt 46 and preferably spot welded in the extended position therein, thereby greatly stiffening and strengthening the same, the spot-light being attached to the outer end of the arm 47 in any suitable manner as, for example, that shown in Fig. 1.

The modification shown in Fig. 11 has the rounded channel edges 48 which fit into similarly shaped grooves 49 in the butt 50 so that the plates 51 first grip and hold the sheet metal strip 35 by said rounded edges 48, the clamping plate 51 being turned down into the groove until drawn into the position shown in Fig. 12 by the clamping bolts 38.

In the modification shown in Figs. 13 and 14 lugs 52 are provided on the butts 53 of the arm 54, which arm is hollowed out so as to provide the sharp edges 28 which impinge upon the standards when drawn thereagainst. The clamping plates 55 are made flat, no channels or grooves being provided in the same, the rounded edges 56 of the clamping plates 55 fitting into the spaced lugs 52 and pressing against the gradually enlarging butt 53 of the arm 54 within the shoulders 57. The end of the clamping strip 35 is attached on one side by screws the same as described and shown in the other forms of clamping attachment and passes around the outer side of the other clamping plate 55 as shown in dotted and solid line in Figs. 13 and 14, thereby obtaining a bracing draw on the clamping strip 35 which is peculiarly strong and specially applicable to rectangular shaped standards or supports around which the strip 35 does not draw easily. For example, this form of attachment is preferred for wedge shaped standards 24, as shown in Fig. 15, thereby insuring the draw of the flexible clamping strip 35 firmly around different shaped standards and insuring the firm holding of the light supporting arm.

The spot-light 40 may thus be easily attached to the standard and adjusted as to position and is preferably connected to a switch 60 within the automobile body so that said spot-light may be turned on or off without exposure to the elements during a storm. The thin polished sheet metal clamping strip 35 with the similarly polished clamping plates 32 on each side thereof around the butt of the arm 25 form a smooth and easily adjusted means of attachment, having a pleasing appearance and which is not in the way of the windshield parts 61 and 62, the thin sheet metal strip 35 being easily inserted around standards through narrow crevices or openings. The permanent attachment of one end of the strip 35 beneath the plate 32 renders the insertion of the other end of said strip easy of accomplishment, after which the plate 33 may be

quickly and easily attached thereby completing the attachment of the spot-light mounting.

I claim as new:—

1. In a lamp mounting, a substantially U-shaped resilient member having its free ends adapted to engage a supporting standard, a flexible strip engaged about the standard and having its ends engaged with the respective opposite sides of said member, clamping plates engaging over the strip ends to hold the latter against the sides of the member, and a bolt passed through each of the plates and free ends of the member to simultaneously draw the ends of the resilient member together and to secure the plates to the member.

2. In a lamp mounting, a member having one end formed to impinge against a supporting standard, a flexible strip engageable about the standard and having its ends engaged with the respective opposite sides of the member, a pair of clamping elements on the respective opposite sides of said member engaged with the respective ends of the strip, the ends of the clamping elements extending above and below the member, and means located beyond the member and secured to each of the respective said ends of the clamping elements to secure the latter together.

3. In a lamp mounting, a member having one end formed to impinge against a supporting standard, a flexible strip engageable about the standard and having its ends engaged with the respective opposite side edges of the member, a clamping plate to rigidly secure one end of the strip to the member so as to allow the other end to be adjustably drawn taut, and a second clamping plate to rigidly secure the other end of the strip after taut drawing of the latter, each of the clamping plates being secured to the member at points to the rear of said side edges of the member and the said side edges extending outwardly beyond the effective clamping faces of the plates and member.

4. A mounting for lamps comprising a bracket arm having a channeled butt to receive a supporting standard against the edges of the channel walls, projections on the opposite sides of said butt, a flexible strip, and clamping plates to engage said projections and strip and draw said strip into close holding engagement around said standard.

5. A mounting for lamps comprising a bracket arm having double crosswise spaced grooves on the butt thereof, channeled clamping plates to fit said double crosswise spaced grooves, a flexible strip to engage around a supporting standard, and clamping bolts to attach said strip to said bracket arm drawing said strip into close holding engagement with said standard.

6. A mounting for lamps comprising a supporting bracket having spaced crosswise grooves and a rib therebetween on both sides of the butt of said arm, a flexible sheet metal strip, clamping channel plates to fit said grooves and rib and hold the ends of said strip, and extensions on said clamping plates beyond the edges of said butt to receive clamping bolts therethrough.

7. A mounting for lamps comprising a supporting bracket having a crosswise channeled butt, similarly channeled clamping plates to fit in said crosswise channels and extend beyond the edges of said butt, a flexible holding strip attached at one end to said butt by holding screws through one of said channeled clamping plates, the other end of said flexible strip passed around a supporting standard and engaged between the other channeled clamping plate and said butt, and clamping bolts through the extending ends of said clamping plates to draw the free end of said flexible strip tightly around said standard and into close holding engagement in said crosswise grooves.

8. In a lamp mounting, a member having one end formed to impinge against a supporting standard and having undulations on each of its opposite sides, a flexible strip engageable about the standard and with said undulations, and means to secure said strip ends to the member and to cause said strip ends to conformably engage the undulations.

9. In a lamp mounting, a member having one end formed to impinge against a supporting standard and having undulations on each of its opposite sides, a flexible strip engageable about the standard and with said undulations and clamping members having complementary undulations engaged with the respective strip ends so as to cause the latter to conformably engage the undulations of the member.

10. In a lamp mounting, a substantially U-shaped resilient member having its free ends adapted to engage a supporting standard, a flexible strip engaged about the standard and having its ends engaged with the respective opposite sides of said member, means engaging over the strip ends, to hold the latter against the sides of the member, and means to draw the ends of the resilient member together.

In testimony whereof I have affixed my signature in the presence of two witnesses.

OTHO M. OTTE.

Witnesses:

H. A. SANDBERG,

I. E. NORDSTROM.