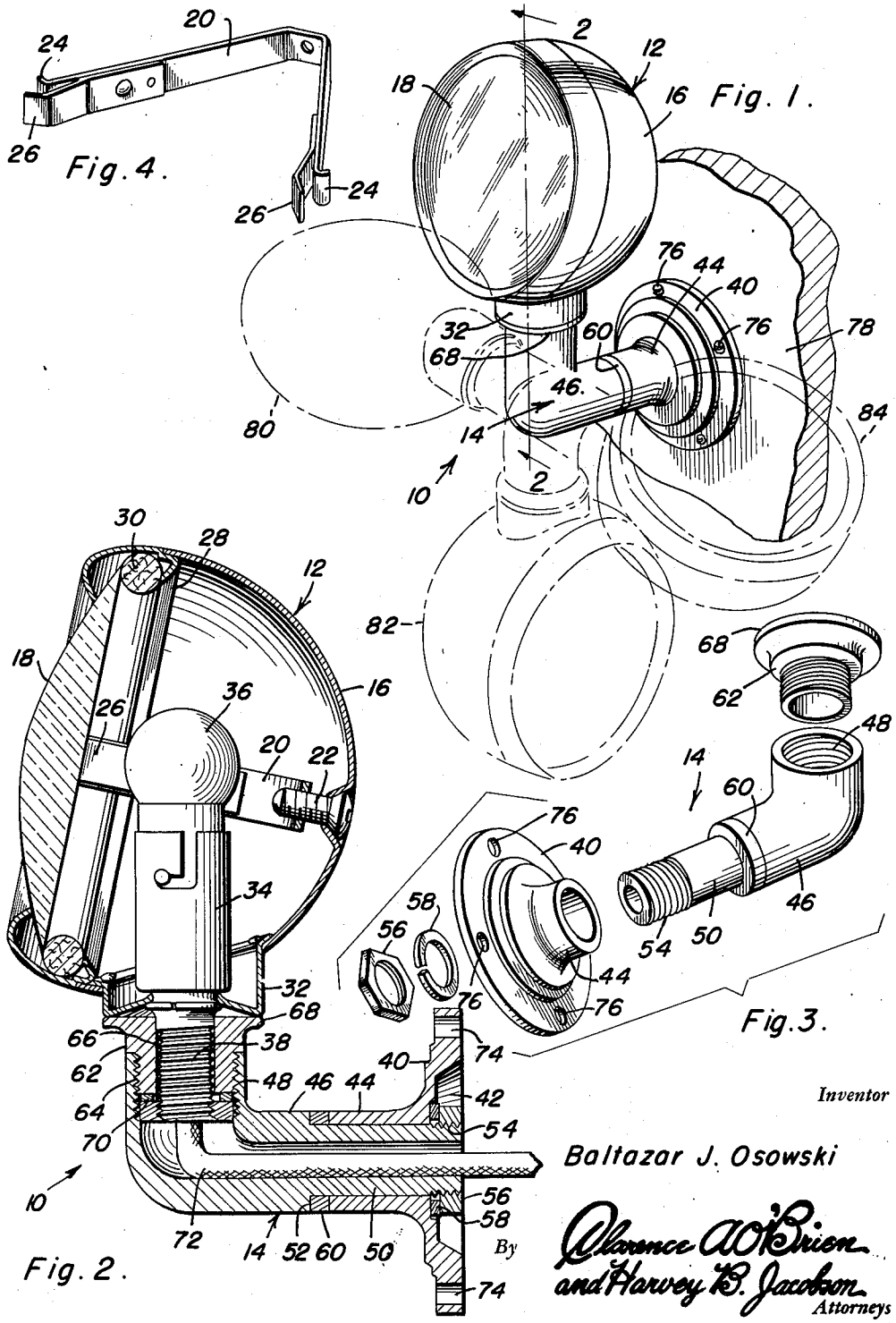
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ROTATABLE SUPPORTING MEANS FOR LAMPS

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## ROTATABLE SUPPORTING MEANS FOR LAMPS

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This invention relates to new and useful improvements and structural refinements in lamps, and the principal object of the invention is to provide what may be referred to as an adjustable lamp, such as may be conveniently and effectively employed in automobiles, trucks, busses, and similar vehicles, for reading purposes and general illumination.

In particular, the invention contemplates the provision of an adjustable lamp bracket whereby the lamp supported by such a bracket may be set or adjusted independently with respect to mutually perpendicular axes.

An important feature of the invention resides, therefore, in the particular construction of the adjustable lamp bracket and in its adaptability to accommodate lamps of a conventional type.

Some of the advantages of the invention lie in its simplicity of construction, convenience in operation, and in its adaptability to economical manufacture.

With the above more important objects and features in view, and such other objects and features as may become apparent as this specification proceeds, the invention consists essentially of the arrangement and construction of parts as illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of the invention;

Figure 2 is a vertical cross sectional view thereof;

Figure 3 is an exploded perspective view of the bracket used in the invention; and,

Figure 4 is a perspective view of a lens retainer used therein.

Like characters of reference are employed to designate like parts in the specification and throughout the several views.

Referring now to the accompanying drawings in detail, the invention consists of an adjustable lamp designated generally by the reference character **10**, the same embodying in its construction a conventional lamp unit **12** and an adjustable bracket assembly **14**.

The lamp unit **12** includes a suitable housing **16** provided with a door in which is removably mounted a magnifying lens **18**, this being effected by the provision of a lens retainer **20** best shown in Figure 4, which is removably mounted in the housing **16** by a suitable screw **22** and which includes resilient fingers **24, 26**, substantially as shown. The fingers **24, 26** are engageable with a retainer ring **28** and a gasket **30** used in association with the magnifying lens **18**, so that the

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lens is retained in position in the door of the housing **16** in a more-or-less conventional manner.

The lamp housing **16** is provided with a protuberance **32** in which is mounted a socket **34** equipped with a conventional incandescent lamp bulb **36**, and the socket **34** usually includes an externally screw-threaded shank or sleeve **38** whereby the lamp unit **12** is customarily attached to its supporting structure, such as for example, to a fender or cowl of an automobile.

The essence of novelty in the invention resides, of course, in the construction and arrangement of the adjustable bracket **14**, this consisting of a mounting plate or flange **40** provided at one side thereof with a recess **42**, while its remaining side is equipped with an integral, tubular ferrule or bearing **44**. An L-shaped arm or conduit **46**, best shown in the accompanying Figure 3, is provided in one end portion thereof with an internal screw-thread **48**, while its remaining end portion is diametrically reduced as at **50** so as to provide an annular shoulder **52**. (See Figure 2.)

The diametrically reduced portion **50** of the conduit **46** is rotatable in the aforementioned bearing **44** of the mounting plate **40** and is screw-threaded as at **54** to receive a nut **56** and a lock washer **58**, as shown in Figure 2. The nut **56** and the lock washer **58** are disposed in the recess **42** of the plate **40**, and it is to be also noted that a friction ring **60**, formed from fibre, rubber, or the like, is interposed between the outer end of the bearing **44** and the shoulder **52** of the conduit **46**. It should be understood that the nut **56** is not fully tightened against the lock washer **58**, so that by virtue of the lock washer and of the friction ring **60**, the portion **50** of the conduit **46** is rotatable in the bearing **44** but the lock washer **58**, by its resiliency, exerts sufficient pressure to prevent free rotation of the conduit portion **50** and the conduit, therefore, remains in a predetermined position to which it is set.

The internally screw-threaded portion **48** of the conduit **46** is adapted to receive what may be referred to as a stepped lamp supporting collar and bushing **62**, this being screw-threaded into the portion **48** of the conduit as at **64** and being provided with an axial bore **66** in which the shank **38** of the lamp unit **12** is rotatable. The member **62** includes an outturned lamp supporting flange **68** which supportably engages the protuberance **32** of the lamp housing **16**, and a suitable nut **70** is provided on the lamp shank **38** so as to rotatably attach the lamp unit to the bracket **14**.

The incandescent bulb 36 is energized by a suitable conductor 72 which extends through the shank 38 and through the conduit 46 substantially as shown in Figure 2.

When the invention is placed in use, the plate 40 of the bracket 14, being provided with suitable apertures 74, may be secured by bolts, screws, or the like, 76, to suitable supporting structure, such as a wall 78, and by virtue of the rotatability of the conduit portion 50 in the bearing 44, and of the rotatability of the shank 38 in the bushing 62, the lamp unit 12 may be adjusted independently in two perpendicular planes, as exemplified at 80, 82, 84, etc. in Figure 1.

Finally, it may be explained that in assembling the bracket 14, the bushing 62 and the nut 70 are first applied to the lamp shank 38, whereupon the bushing and nut, together with the lamp unit 12, are applied to the portion 48 of the conduit 46 and the conduit may then be applied to the mounting plate 40 by employing the nut and lock washer 56, 58 respectively, before the entire assembly is secured to the wall 78 by the screws 76.

It is believed that the advantages and use of the invention will be clearly apparent from the foregoing disclosure and accordingly, further description thereof at this point is deemed unnecessary.

While in the foregoing there has been shown and described the preferred embodiment of this invention, it is to be understood that minor changes in the details of construction and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

Having described the invention, what is claimed as new is:

1. In a lamp having an externally threaded tubular mounting sleeve rigidly attached thereto and extending therefrom; an adjustable lamp bracket comprising an "L" shaped support arm having an axial bore therethrough, said arm having an internally threaded outer end and an externally threaded inner end, a collar having an axial bore therethrough for rotatably receiving said tubular mounting sleeve, said collar having an externally threaded end portion, said externally threaded end portion of said collar being screw threadedly received in said internally threaded outer end of said support arm, a retaining nut rotatably disposed in said bore in said arm and underlying the inner end of said collar for retaining the lamp mounting sleeve in the bore in the collar, a flange having an axial bore therein rotatably receiving said inner end of said support arm, a lock nut threadedly received on said externally threaded inner end of said arm retaining said flange in engagement with said arm.

2. On a lamp having an externally threaded mounting sleeve rigidly attached thereto and extending therefrom; an adjustable lamp bracket comprising an "L" shaped support arm having an axial bore therethrough, said arm having an internally threaded outer end and an externally threaded inner end, a stepped collar having an outwardly flared lamp supporting flange on its upper end, and an externally threaded lower end portion of reduced diameter, an annular shoulder between said upper and lower ends of said collar, said internally threaded outer end of said arm threadedly engaging said lower end portion of said collar and abutting said shoulder, said collar having an axial bore therethrough for rotatably receiving said mounting sleeve, a retaining nut rotatably disposed in said bore in said arm and underlying the inner end of said collar for threadedly engaging said mounting sleeve, a resilient ring positioned between said retaining nut and the inner end of said collar for yieldingly urging the lamp into engagement with said lamp supporting flange of said collar, a flange having an axial bore therein rotatably receiving said inner end of said support arm, means for retaining said flange in engagement with said arm.



3. On a lamp having an externally threaded mounting sleeve rigidly attached thereto and extending therefrom; an adjustable lamp bracket comprising an "L" shaped support arm having an axial bore therethrough, said arm having an internally threaded outer end and an inner end, a stepped collar having an outwardly flared lamp supporting flange on its upper end, and an externally threaded lower end portion of reduced diameter, an annular shoulder between said upper and lower ends of said collar, said internally threaded outer end of said arm threadedly engaging said lower end portion of said collar and abutting said shoulder, said collar having an axial bore therethrough for rotatably receiving said mounting sleeve, a retaining nut rotatably disposed in said bore in said arm and underlying the inner end of said collar for threadedly engaging said mounting sleeve, a resilient ring positioned between said retaining nut and the inner end of said collar for yieldingly urging the lamp into engagement with said lamp supporting flange of said collar, said inner end of said arm having a cylindrical extension thereon of reduced diameter, a seat between said extension and said inner end of said arm, a ferrule rotatably received on said extension, a resilient ring mounted on said extension between said seat and the adjacent end of said ferrule, a radially extending mounting flange on the other end of said ferrule, said flange having a recess therein, means for locking the inner end of said extension to said flange, said locking means being receivable in said recess.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

| Number | Name | Date |
|---|---|---|
| 1,206,871 | Locke | Dec. 5, 1916 |
| 1,257,837 | Fowler | Feb. 26, 1918 |
| 1,561,625 | Whittington | Nov. 17, 1925 |
| 1,761,022 | Parker | June 3, 1930 |