Jan. 26, 1971 L. V. CARTELLI 3,559,153

INDICATOR BULB MOUNTING

Filed June 2, 1969

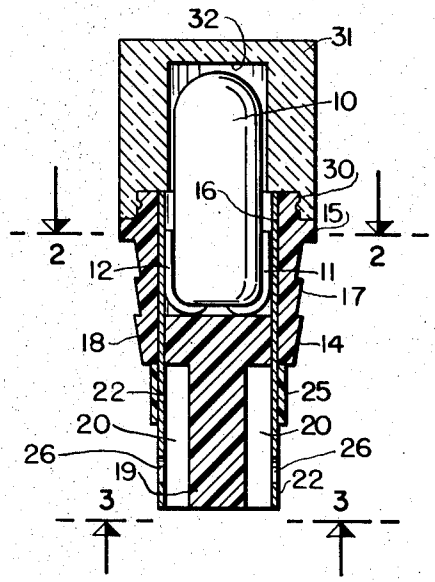


Fig. 1.

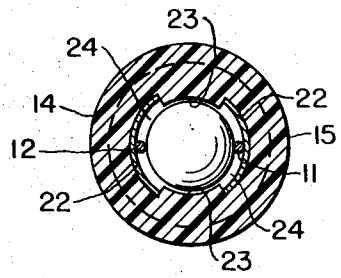


Fig. 2.

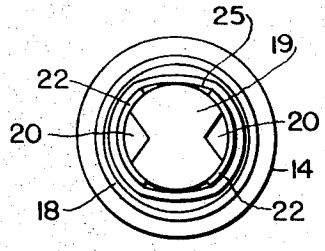


Fig. 3.

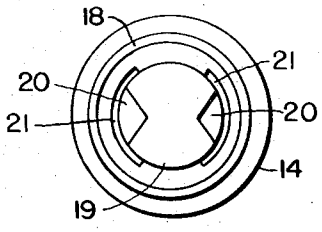


Fig. 4.

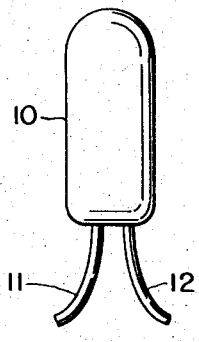


Fig. 5.

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INDICATOR BULB MOUNTING

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U.S. Cl. 339—126 8 Claims

ABSTRACT OF THE DISCLOSURE

A mounting for miniature indicator light bulbs having bare wire leads is formed from two molded plastic parts, a base containing a cavity to receive the bulb, said base having longitudinal contacts extending along opposite sides of a cylindrical lower projection of said base into the cavity to contact the leads of a bulb, and a light passing cover snapped to said base over the cavity holding a bulb therein.

BACKGROUND OF THE INVENTION

Small indicator bulbs having bare wire leads are used in a wide variety of locations in many applications. This invention provides a very inexpensive mounting for such bulbs which enables them to be replaced without soldering and allows them to be installed more easily in a wider variety of applications.

BRIEF DESCRIPTION OF THE DRAWING

FIG. 1 is a longitudinal, vertical section through a bulb mounting according to my invention with a bare wire lead miniature indicating bulb shown therein;

FIG. 2 is a section taken on line 2—2 of FIG. 1;

FIG. 3 is a bottom view of the bulb mounting taken on line 3—3 of FIG. 1;

FIG. 4 is a bottom view of the base of the bulb mounting; and

FIG. 5 is a side view of a conventional miniature indicating bulb having bare wire leads.

DESCRIPTION OF THE PREFERRED EMBODIMENT

A standard bare wire lead bulb, known as a T–1 bulb in the electronics industry, is shown in FIG. 5 and designated by the reference numeral **10**. A T–1 bulb would be about ¼ inch long and ⅛ inch in diameter and have the uninsulated leads **11** and **12** extend from it. This invention provides a less expensive and more easily used mounting for indicator light bulbs **10**.

As shown in FIGS. 1–4, a base **14** is molded from any suitable plastic. Base **14** has an upper body portion **15** which contains the cavity **16**. The lower outer surface of body portion **15** has a series of annular tapered ridges **17** and **18** formed thereon to secure the mounting in a suitable aperture in a sheet metal instrument frame or the like (not shown). A cylindrical lower projection **19** extends downward from the body portion **15** of base **14** and it contains the V-shaped longitudinal indentations **20** formed therein on opposite sides.

As may be seen in FIG. 4, arcuate longitudinal passages **21** are formed in base **14** above the indentations **20** and radially disposed just beyond the cylindrical lower projection **19**. As may be seen in FIGS. 1, 2 and 3, an elongated arcuate contacts **22** are inserted through the passages **21** so that they extend on each side of the indentations **20**

and extend into the cavity **16**. As shown in FIG. 2, cavity **16** has two oppositely disposed larger radius portions **24** which receive the upper ends of the contacts **22** therein. Smaller radius portions **23** of cavity **16** are disposed between portions **24** and they receive the sides of a bulb **10** snugly. The larger radius portions **24** allow leads **11** and **12** of a bulb **10** to extend therein between bulb **10** and the contacts **22**.

As may be seen in FIGS. 1 and 3, a band **25** of a suitable flexible plastic may be placed about the contacts **22** and the cylindrical lower projection **19** after the contacts **22** are inserted in base **14**. The band **25** may be heat shrunk in place to firmly secure the contacts **22** within the base **14**. It is to be noted that apertures **26**, shown in FIG. 1, are provided in the contacts **22** so that solder connections may be made thereto; that the V-shaped indentations **20** will receive standard .040 inch connecting pins within them to bear against the contacts **22**; and that the entire base **14** of the mounting may be received in a standard female socket containing two projecting .040 inch pins.

The top of base **14** has a smaller diameter annular ring **30** formed thereon so that a plastic translucent or clear cover **31** may be snapped in place about it. The cover **31** contains a cavity **32** to receive the top of bulb **10** so that cover **31** passes light through it and also secures the bulb **10** in place. Cover **31** may be molded from a colored plastic to provide an indicating light of any desired color.

While my invention has been shown and described in the best form known to me, it will nevertheless be understood that this is purely exemplary and that modifications may be made without departing from the spirit and scope of the invention except as it may be more limited in the appended claims.

I claim:

1. A mounting for an indicator bulb having bare wire leads, said mounting comprising, in combination, a base having an upper body portion containing a cavity and having a lower projection, said base containing two longitudinal arcuate passages disposed radially outward from said lower projection, arcuate contacts in said passages extending adjacent to said lower projection and extending into said cavity, said cavity having oppositely disposed smaller radius portions between which said bulb seats and having larger radius portions into which said contacts extend, said leads extending into said larger radius portions between said bulb and said contacts, means securing said contacts in said base, a light passing cover over said cavity and said bulb, and means securing said cover to said base.

2. The combination according to claim **1** wherein said lower projection of said base is cylindrical and contains two oppositely disposed longitudinal indentations, said contacts extending over said indentations.

3. The combination according to claim **2** wherein said indentations are V-shaped to receive contact pins therein.

4. The combination according to claim **3** wherein said means securing said contacts in said base is a band disposed about said contacts and said lower projection.

5. The combination according to claim **4** wherein said band is of plastic heat shrunk in position.

6. The combination according to claim **1** wherein said means securing said cover to said base comprises a smaller diameter annular ring of said base about said cavity, said cover snapping about said ring.

7. The combination according to claim 6 wherein said cover is cylindrical and contains a cavity receiving the upper portion of said bulb.

8. The combination according to claim 1 wherein said upper body portion of said base has a series of annular tapered ridges formed thereon.

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