

Title (en)

Assembly method for a light bulb mount for vehicle lamps

Title (de)

Zusammenbauverfahren für den Aufbau einer Fahrzeugglühbirne

Title (fr)

Méthode d'assemblage d'une lampe à incandescence pour véhicules

Publication

**EP 0920091 A3 20000308 (EN)**

Application

**EP 98309560 A 19981123**

Priority

US 97906297 A 19971126

Abstract (en)

[origin: EP0920091A2] The present invention relates to an assembly method for a light bulb mount for vehicle lamps. The mount incorporates a flexible metal track for mounting a based light bulb, wherein the track dampens vibrations between its mounting location and the lamp by virtue of its flexible nature. The lamp is permanently mounted (both electrically and mechanically) to the track by placing the lamp thereon and then reflowing the solder ball(s) which form the bottom contact(s) of the lamp, each solder ball being coupled to the internal lead wire of the lamp. The reflow operation eliminates the need for a socket for the lamp and provides a quick and low-cost means for mounting the lamp to the track without any extra materials. Once the lamp has been mounted to the track, the track is mounted to a lamp housing, wherein this mounting causes the lamp to be suspended within a well formed into the lamp housing. The base of the lamp and the distal portion of the track are then encapsulated with a resilient material poured into the well, such as silicone. The silicone encapsulation of the lamp provides further dampening for shock forces transmitted to the lamp assembly, and also protects the lamp electrical connections from moisture. <IMAGE>

IPC 1-7

**H01R 33/975**; **F21V 15/04**; **F21Q 1/00**

IPC 8 full level

**H01R 33/975** (2006.01)

CPC (source: EP)

**H01R 33/9756** (2013.01)

Citation (search report)

- [A] US 4740876 A 19880426 - ROLLER PHILIP C [US]
- [A] US 5463541 A 19951031 - GREENE KENNETH L [US]
- [AD] US 4922395 A 19900501 - RONEY TROY L [US]
- [A] US 5153480 A 19921006 - SCHOENHERR WALTER [DE], et al
- [A] NASA TECH BRIEF: "Vibration-resistant support for halide lamps", N.T.I.S. TECH NOTES, August 1987 (1987-08-01), Springfield, Va, USA, pages 750, XP002124543

Cited by

EP2553326A4; US9157608B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 0920091 A2 19990602**; **EP 0920091 A3 20000308**; AU 9412198 A 19990617

DOCDB simple family (application)

**EP 98309560 A 19981123**; AU 9412198 A 19981125