

Title (en)

Reflector lamp utilizing lens bonded with solder glass and method of making the same.

Title (de)

Reflektorleuchte mit einer mit Lötglas verbundenen Linse und Herstellungsverfahren dafür.

Title (fr)

Lampe à réflecteur utilisant une lentille liée par verre de soudure et son procédé de fabrication.

Publication

EP 0551647 A1 19930721 (EN)

Application

EP 92121845 A 19921223

Priority

US 81433591 A 19911226

Abstract (en)

A method for constructing a reflector lamp and a lamp constructed using the method. A lamp assembly includes a reflector (14) having an optical axis (16) and a contact surface (34), a lens (20) having an optical axis (16) and a contact surface (32) and a solder glass (30) between the contact surface (32) of the lens (20) and the contact surface (34) of the reflector (14). The lamp assembly is heated to an elevated temperature sufficient to melt the solder glass (30). The elevated temperature is maintained for a time sufficient to bond the solder glass (30) to the lens (20) and the reflector (14), respectively. The solder glass (30) has a thermal expansion coefficient which is substantially matched to a thermal expansion coefficient of the lens (20) and the reflector (14). The solder glass (30) further requires processing times and temperatures which do not substantially degrade a reflective coating (18) on an inside surface of the reflector (14). <IMAGE>

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CPC (source: EP)

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Citation (search report)

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