

Title (en)

Mercury and lead free high pressure sodium lamp

Title (de)

Quecksilber- und Bleilose Natrium-Hochdruckentladungslampe

Title (fr)

Lampe au sodium sans mercure ni plomb

Publication

EP 0942456 A2 19990915 (EN)

Application

EP 99103825 A 19990227

Priority

- US 7769898 P 19980312
- US 24425299 A 19990203

Abstract (en)

A long-life, environmentally disposable high pressure sodium lamp comprising: an arc tube capable of withstanding internal wall temperatures of 1250 to 1300 DEG C and having electrodes sealed therein and being designed for operation at a given wattage; a discharge space within the arc tube and an arc generating and sustaining medium within the discharge space, the medium being mercury-free and containing sodium in an amount of about 0.02 mg to 0.06 mg/watt of designed operation, and xenon at a pressure of 100 to 200 Torr; mounting means supporting the arc tube, within a glass outer envelope, the glass outer envelope being lead-free and arsenic-free; and an electrically conductive base closing the outer envelope and containing lead-in wires affixed to the electrodes, the lead-in wires being attached to the base by welding. <IMAGE>

IPC 1-7

H01J 61/82; **H01J 61/30**; **H01J 61/22**

IPC 8 full level

H01J 5/62 (2006.01); **H01J 61/22** (2006.01); **H01J 61/30** (2006.01); **H01J 61/34** (2006.01); **H01J 61/82** (2006.01)

CPC (source: EP)

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Citation (applicant)

- US 5682082 A 19971028 - WEI GEORGE [US], et al
- US 8598998 A 19980528

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