

Title (en)

Low-pressure mercury discharge lamp with an external tube

Title (de)

Niederdruck-Quecksilber-Entladungslampe mit Aussenkolben

Title (fr)

Lampe à décharge à vapeur de mercure à basse pression avec ampoule extérieure

Publication

**EP 1160834 A3 20030903 (DE)**

Application

**EP 01000191 A 20010529**

Priority

DE 10026909 A 20000531

Abstract (en)

[origin: EP1160834A2] Low pressure mercury discharge lamp consists of an inner bulb forming a gas discharge vessel having a wall made from a material which is permeable for electromagnetic radiation and coated with a phosphor; an outer bulb surrounding the inner bulb and having a wall containing a UV-A phosphor; and devices for producing and maintaining a low pressure mercury gas discharge. Preferred Features: The wall of the outer bulb has a coating containing the UV-A phosphor, or is made from a material containing a polymeric plastic and the UV-A phosphor. The UV-A phosphor is selected from ZnS:Ag; YVO<sub>4</sub>:Eu; Y(V, P)O<sub>4</sub>:Eu; Y<sub>2</sub>O<sub>3</sub>:Eu; CaSiO<sub>3</sub>:Ce,Mn; Y<sub>2</sub>SiO<sub>5</sub>:Ce,Mn; BaMgAl<sub>10</sub>O<sub>17</sub>: Eu, Mn and (Ba, Sr, Ca)<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>Cl:Eu,Mn.

IPC 1-7

**H01J 61/44**; **H01J 61/42**

IPC 8 full level

**H01J 61/34** (2006.01); **H01J 61/42** (2006.01); **H01J 61/44** (2006.01)

CPC (source: EP US)

**H01J 61/327** (2013.01 - EP US); **H01J 61/34** (2013.01 - EP US); **H01J 61/42** (2013.01 - EP US); **H01J 61/44** (2013.01 - EP US)

Citation (search report)

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- [X] US 5804914 A 19980908 - OZAWA LYUJI [TW], et al
- [A] EP 0481647 A2 19920422 - EMI PLC THORN [GB]
- [A] PATENT ABSTRACTS OF JAPAN vol. 006, no. 160 (E - 126) 21 August 1982 (1982-08-21)

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DOCDB simple family (application)

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