

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 B1 20081008 (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; YVO₄:Eu; Y(V, P)O₄:Eu; Y₂O₃:Eu; CaSiO₃:Ce,Mn; Y₂SiO₅:Ce,Mn; BaMgAl₁₀O₁₇: Eu, Mn and (Ba, Sr, Ca)₅(PO₄)₃Cl:Eu,Mn.

IPC 8 full level

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

Cited by

EP1484783A3; CN106252193A; WO2004037738A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1160834 A2 20011205; **EP 1160834 A3 20030903**; **EP 1160834 B1 20081008**; CN 1222981 C 20051012; CN 1326215 A 20011212; DE 10026909 A1 20011206; DE 50114377 D1 20081120; JP 2002025502 A 20020125; US 2002027420 A1 20020307; US 6888302 B2 20050503

DOCDB simple family (application)

EP 01000191 A 20010529; CN 01122088 A 20010528; DE 10026909 A 20000531; DE 50114377 T 20010529; JP 2001161331 A 20010529; US 86413201 A 20010524