

Title (en)

Dielectric barrier discharge lamp and use thereof for viewing x-rays image

Title (de)

Dielektrische Barriere-Entladungslampe und Verwendung dieser Lampe für die Röntgenbildbetrachtung

Title (fr)

Lampe à décharge à barrière dielectrique et son utilisation pour la visualisation d image radiographique

Publication

**EP 1422741 A3 20050302 (DE)**

Application

**EP 03025458 A 20031105**

Priority

DE 10254208 A 20021120

Abstract (en)

[origin: EP1422741A2] Dielectric barrier discharge lamp (1) comprises a discharge vessel containing a discharge medium, a set of electrodes (8-11) for producing dielectrically hindered discharges in the discharge medium, and a luminescent mixture applied on part of the wall of the vessel and consisting of R: (Y, Gd)BO<sub>3</sub>: Eu, G: LaPO<sub>4</sub>: (Tb or LaPO<sub>4</sub> (Ce, Tb)) and B: BaMgAl<sub>10</sub>O<sub>17</sub>: Eu (where R = 0.05-0.15; G = 0.50-0.70; B = 0.20-0.40; and R + G + B = 1).

IPC 1-7

**H01J 61/44**; C09K 11/78; C09K 11/81; C09K 11/80

IPC 8 full level

**H01J 61/44** (2006.01)

CPC (source: EP US)

**H01J 61/44** (2013.01 - EP US)

Citation (search report)

- [X] US 6045721 A 20000404 - ZACHAU MARTIN [DE], et al
- [A] EP 1076084 A2 20010214 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [A] US 5714835 A 19980203 - ZACHAU MARTIN [DE], et al
- [X] EP 0488330 A2 19920603 - TOSHIBA KK [JP], et al
- [A] EP 1253181 A2 20021030 - NEC CORP [JP]
- [A] EP 1119020 A2 20010725 - PHILIPS CORP INTELLECTUAL PTY [DE], et al

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1422741 A2 20040526**; **EP 1422741 A3 20050302**; CA 2451289 A1 20040520; DE 10254208 A1 20040603; US 2004100182 A1 20040527

DOCDB simple family (application)

**EP 03025458 A 20031105**; CA 2451289 A 20031118; DE 10254208 A 20021120; US 70607603 A 20031113