

Title (en)  
DISCHARGE LAMP WITH DIELECTRICALLY IMPEDED ELECTRODES

Title (de)  
ENTLADUNGSLAMPE MIT DIELEKTRISCH BEHINDERTEN ELEKTRODEN

Title (fr)  
LAMPE A DECHARGE AVEC ELECTRODES INHIBEES DIELECTRIQUEMENT

Publication  
**EP 1004137 A2 20000531 (DE)**

Application  
**EP 99934474 A 19990511**

Priority

- DE 9901421 W 19990511
- DE 19826808 A 19980616

Abstract (en)  
[origin: DE19826808A1] The invention relates to a discharge lamp suitable for operation by dielectrically impeded discharge and comprising electrodes arranged on the wall of the discharge vessel. Said lamp has at least one dielectric layer which covers at least a part of the electrodes and optionally also at least part of the discharge vessel wall. A luminescent and/or reflecting layer is placed on the at least one dielectric layer. According to the invention at least the dielectric layer arranged directly beneath the luminescent and/or reflecting layer consists of a glass solder, especially a sintered vitroceraic material, whose viscosity is irreversible in relation to temperature. This prevents the dielectric layer from renewed melting during the production process and therefore the porous reflective and/or luminescent layer placed on the dielectric layer from cracking.

IPC 1-7  
**H01J 61/00**

IPC 8 full level  
**H01J 9/24** (2006.01); **H01J 65/00** (2006.01); **H01J 65/04** (2006.01)

CPC (source: EP KR US)  
**H01J 9/247** (2013.01 - EP US); **H01J 65/04** (2013.01 - EP KR US)

Designated contracting state (EPC)  
BE DE FI FR GB IT NL

DOCDB simple family (publication)  
**US 6469435 B1 20021022**; CA 2300124 A1 19991223; CA 2300124 C 20080506; DE 19826808 A1 19991223; DE 19826808 C2 20030417; DE 59914720 D1 20080521; EP 1004137 A2 20000531; EP 1004137 B1 20080409; HU 224573 B1 20051128; HU P0004305 A2 20010328; HU P0004305 A3 20030728; JP 2002518811 A 20020625; JP 3568898 B2 20040922; KR 100354724 B1 20020930; KR 20010022965 A 20010326; TW 428208 B 20010401; WO 9966537 A2 19991223; WO 9966537 A3 20000127

DOCDB simple family (application)  
**US 46390400 A 20000202**; CA 2300124 A 19990511; DE 19826808 A 19980616; DE 59914720 T 19990511; DE 9901421 W 19990511; EP 99934474 A 19990511; HU P0004305 A 19990511; JP 2000555279 A 19990511; KR 20007001573 A 20000216; TW 88109894 A 19990614