

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 0981831 B1 20010919 (DE)**

Application  
**EP 99915495 A 19990302**

Priority  
• DE 9900543 W 19990302  
• DE 19811520 A 19980317

Abstract (en)  
[origin: US6304028B1] A discharge lamp (1) having an electrically conducting screen (12, 13) which at least partially surrounds the discharge vessel (2). The electrodes (3-5) are separated from the interior of the discharge vessel (2) by a dielectric barrier (6-8). Moreover, this screen (12, 13) is electrically separated from the electrodes (3-5) by a dielectric (2). In order largely to prevent the electric power fed to the lamp electrodes (3-5) during operation from being capacitatively coupled to the electrically conducting screen (12, 13), the thickness dB and the dielectric constant  $\epsilon_D$  of the dielectric (2), as well as the thickness dB and the dielectric constant  $\epsilon_D$  of the barrier (6-8), which separates the electrodes (3-5) from the gas filling, are specifically mutually coordinated such that the following relationship is fulfilled:

IPC 1-7  
**H01J 61/04**; **H01J 65/04**

IPC 8 full level  
**H01J 61/04** (2006.01); **H01J 65/04** (2006.01); **H01J 65/00** (2006.01)

CPC (source: EP KR US)  
**H01J 61/04** (2013.01 - EP KR US); **H01J 65/046** (2013.01 - EP US)

Cited by  
DE102004047373A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)  
**US 6304028 B1 20011016**; AT E205961 T1 20011015; CA 2289536 A1 19990923; CA 2289536 C 20070515; DE 19811520 C1 19990812; DE 59900265 D1 20011025; EP 0981831 A1 20000301; EP 0981831 B1 20010919; HU 223240 B1 20040428; HU P0002438 A2 20001128; HU P0002438 A3 20011228; JP 2001526828 A 20011218; JP 4108770 B2 20080625; KR 100563745 B1 20060324; KR 20010012672 A 20010226; WO 9948134 A1 19990923

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