

Title (en)
High pressure discharge lamp for vehicle headlamps

Title (de)
Hochdruckentladungslampe für Fahrzeugscheinwerfer

Title (fr)
Lampe à décharge à haute pression pour projecteurs de véhicule

Publication
EP 1465237 B1 20131002 (DE)

Application
EP 04003303 A 20040213

Priority
DE 10312290 A 20030319

Abstract (en)
[origin: EP1465237A2] An ionizable filling is comprised of xenon and halides of metals sodium, scandium, indium and zinc to produce gas discharge within a discharge vessel (10) sealed in gas tight manner.

IPC 8 full level
F21S 8/10 (2006.01); **H01J 61/12** (2006.01); **H01J 17/20** (2006.01); **H01J 61/073** (2006.01); **H01J 61/16** (2006.01); **H01J 61/18** (2006.01); **H01J 61/20** (2006.01); **H01J 61/30** (2006.01); **H01J 61/82** (2006.01); **H01J 61/84** (2006.01); **H01J 61/86** (2006.01); **H01J 61/88** (2006.01); **F21S 8/12** (2006.01); **F21W 101/10** (2006.01); **F21Y 101/00** (2016.01)

CPC (source: EP KR US)
H01J 61/125 (2013.01 - EP US); **H01J 61/827** (2013.01 - EP US); **H01T 4/02** (2013.01 - KR); **H01T 4/14** (2013.01 - KR)

Citation (examination)
JP 2002298780 A 20021011 - HARISON TOSHIBA LIGHTING CORP, et al

Cited by
DE102015211915A1; US8436539B2; US7705538B2; US8410698B2; DE102013223708A1; DE102007043165A1; WO2009127993A1; WO2009040709A3; WO2008122912A3; DE102010063755A1; WO2012076298A1; DE102008051825A1; US8664856B2; DE102008003907A1; DE102007018614A1; US8310156B2; WO2008128910A1

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 1465237 A2 20041006; EP 1465237 A3 20071219; EP 1465237 B1 20131002; DE 10312290 A1 20040930; JP 2004288629 A 20041014; JP 4404663 B2 20100127; KR 101079746 B1 20111103; KR 20040083006 A 20040930; US 2004183446 A1 20040923; US 7126281 B2 20061024

DOCDB simple family (application)
EP 04003303 A 20040213; DE 10312290 A 20030319; JP 2004078746 A 20040318; KR 20040018922 A 20040319; US 79884804 A 20040312