

Title (en)

Mercury-free high-pressure discharge lamp and luminaire using the same

Title (de)

Quecksilberfreie Hochdruckentladungs Lampe und Leuchte

Title (fr)

Lampe à décharge haute pression exempte de mercure et luminaire

Publication

**EP 1768165 A3 20081126 (EN)**

Application

**EP 06019906 A 20060922**

Priority

- JP 2005276883 A 20050922
- JP 2006150886 A 20060531

Abstract (en)

[origin: EP1768165A2] A mercury-free high-pressure discharge lamp includes a light-transmissive airtight envelope enclosing therein a discharge space, a pair of electrodes sealed inside the light-transmissive airtight envelope and facing the discharge space, and an ionization medium substantially excluded mercury therefrom, which is filled in the light-transmissive airtight envelope, wherein the ionization medium contains, a principal metal halide including thulium (Tm) as primary constituent thereof and capable of emitting light mainly at a visible range, an accessory metal halide including zinc (Zn) as primary constituent thereof and capable of fixing lamp voltage, and rare gas.

IPC 8 full level

**H01J 61/12** (2006.01); **H01J 61/82** (2006.01)

CPC (source: EP)

**H01J 61/125** (2013.01); **H01J 61/827** (2013.01)

Citation (search report)

- [X] DE 19731168 A1 19990128 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [X] DE 10354868 A1 20040617 - KOITO MFG CO LTD [JP]
- [X] DE 19857585 A1 20000615 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [XP] EP 1696468 A2 20060830 - TOSHIBA LIGHTING & TECHNOLOGY [JP]
- [A] EP 1530231 A2 20050511 - HARISON TOSHIBA LIGHTING CORP [JP]

Cited by

DE102008013607B3; EP2091304A4; WO2011018741A2; WO2008012228A1; WO2009109566A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 1768165 A2 20070328; EP 1768165 A3 20081126; JP 2007115652 A 20070510**

DOCDB simple family (application)

**EP 06019906 A 20060922; JP 2006150886 A 20060531**