

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 A2 20070328 (EN)**

Application

**EP 06019906 A 20060922**

Priority

- JP 2005276883 A 20050922
- JP 2006150886 A 20060531

Abstract (en)

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)

Cited by

DE102008013607B3; EP2091304A4; WO2011018741A2; WO2008012228A1; WO2009109566A1

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Designated extension state (EPC)

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DOCDB simple family (publication)

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