

Title (en)

Mercury-free metal halide high pressure discharge lamp

Title (de)

Quecksilberfreie Metallhalogenid-Hochdruckentladungslampe

Title (fr)

Lampe à décharge à haute tension à halogénures métalliques sans mercure

Publication

**EP 2128888 B1 20110622 (DE)**

Application

**EP 09002659 A 20090225**

Priority

DE 102008013607 A 20080311

Abstract (en)

[origin: US2009230867A1] A mercury-free metal halide high pressure discharge lamp having a transparent and gastight sealed discharge vessel and two electrodes which protrude into the discharge vessel and are arranged in the discharge vessel opposite one another, with the discharge vessel being filled with a lamp filling which has: at least one noble gas, at least the elements of iron and zinc, as well as at least one halide, with the halide comprising bromide, and with the percentage of the bromide being at least 14 mole percent of the total halogen quantity and the following relationship applying to the ratio of molar density of zinc D in  $\mu\text{mol}/\text{cm}^3$  and electric field strength E in  $\text{V}/\text{cm}$  between the electrodes:  $0.005 \leq D/E \leq 0.200$ .

IPC 8 full level

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

CPC (source: EP KR US)

**H01J 61/073** (2013.01 - KR); **H01J 61/125** (2013.01 - EP US); **H01J 61/18** (2013.01 - KR); **H01J 61/827** (2013.01 - EP US)

Cited by

CN102205136A; EP2528083A3

Designated contracting state (EPC)

DE GB IT NL

DOCDB simple family (publication)

**US 2009230867 A1 20090917**; DE 102008013607 B3 20100204; EP 2128888 A2 20091202; EP 2128888 A3 20100630; EP 2128888 B1 20110622; JP 2009218212 A 20090924; JP 5438996 B2 20140312; KR 101050783 B1 20110721; KR 20090097813 A 20090916

DOCDB simple family (application)

**US 40123509 A 20090310**; DE 102008013607 A 20080311; EP 09002659 A 20090225; JP 2009057429 A 20090311; KR 20090020651 A 20090311