

Title (en)

Metal halogen lamp

Title (de)

Metallhalogenidlampe

Title (fr)

Lampe aux halogénures métalliques

Publication

EP 1011126 A3 20060823 (DE)

Application

EP 99124410 A 19991207

Priority

DE 19857585 A 19981214

Abstract (en)

[origin: US6483241B1] A mercury-free metal halide lamp with a light efficiency of at least 70 lm/W and a color rendering index of at least 80 has a ceramic discharge vessel, into which electrodes are introduced in a vacuum-tight manner. The fill comprises the following components: an inert gas which acts as buffer gas, a compound of a halogen X with at least one of the metals hafnium and/or zirconium (referred to below as metal halide HZM), this halide being referred to below as HZH for short, HZH simultaneously performing tasks of voltage gradient formation and of promoting the cycle, a light generator comprising at least a further metal halide, at least one further metal halide MYn which vaporizes readily and is used as voltage gradient generator, the specific molar content of HZH being greater than or equal to 3 μmol/cm³. In addition, the following relationship applies: 5<=(X+Y)/HZM<=15, resulting in a lamp service life of more than 5000 hours.

IPC 8 full level

H01J 61/16 (2006.01); **H01J 61/12** (2006.01); **H01J 61/82** (2006.01); **H01J 61/20** (2006.01)

CPC (source: EP US)

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

Citation (search report)

- [XP] EP 0903770 A2 19990324 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [DA] EP 0627759 A1 19941207 - PHILIPS ELECTRONICS NV [NL]
- [DA] EP 0587238 A1 19940316 - KONINKL PHILIPS ELECTRONICS NV [NL]

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EP1037257A3; EP1398823A3; EP1465237A3; EP1158567A3; US6608444B2; WO03067622A3; EP1139387A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

US 6483241 B1 20021119; CA 2292142 A1 20000614; DE 19857585 A1 20000615; EP 1011126 A2 20000621; EP 1011126 A3 20060823; HU 222700 B1 20030929; HU P9904194 A2 20000628; HU P9904194 A3 20010730; JP 2000182564 A 20000630

DOCDB simple family (application)

US 45519399 A 19991206; CA 2292142 A 19991208; DE 19857585 A 19981214; EP 99124410 A 19991207; HU P9904194 A 19991110; JP 35205999 A 19991210