

Title (en)

HIGH-PRESSURE METAL-HALIDE DISCHARGE LAMP FOR FITTING IN OPTICAL SYSTEMS

Title (de)

METALLHALOGENID-HOCHDRUCKENTLADUNGSLAMPE FÜR DEN EINBAU IN OPTISCHE SYSTEME

Title (fr)

LAMPE A DECHARGE SOUS HAUTE PRESSION, A HALOGENURE METALLIQUE, DESTINEE AU MONTAGE DANS DES SYSTEMES OPTIQUES

Publication

EP 0692139 B1 19980610 (DE)

Application

EP 94911079 A 19940325

Priority

- DE 9400343 W 19940325
- DE 4310539 A 19930331

Abstract (en)

[origin: WO9423441A1] The invention concerns a high-pressure metal-halide discharge lamp (1) for fitting in optical systems and with specific arc powers between 60 and 140 W per mm arc length, the discharge tube (2) containing tantalum and dysprosium. At wall loads between 40 and 85 W/cm², optimum performance is obtained if the gas in the discharge tube contains, per cubic centimetre of tube volume, 0.2 to 1.5 mg of tantalum and dysprosium at a ratio by weight of tantalum to dysprosium of between 0.3 and 1.5. This gives lamp lives of 1,500 h at a colour temperature of 5,500 K.

IPC 1-7

H01J 61/12; **H01J 61/82**

IPC 8 full level

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

CPC (source: EP KR US)

H01J 61/12 (2013.01 - KR); **H01J 61/125** (2013.01 - EP US); **H01J 61/827** (2013.01 - EP US)

Designated contracting state (EPC)

BE DE FR GB IT NL

DOCDB simple family (publication)

DE 4310539 A1 19941006; CN 1061171 C 20010124; CN 1120374 A 19960410; DE 59406224 D1 19980716; EP 0692139 A1 19960117; EP 0692139 B1 19980610; JP 3447293 B2 20030916; JP H08508130 A 19960827; KR 100313740 B1 20011228; KR 960701462 A 19960224; US 5635796 A 19970603; WO 9423441 A1 19941013

DOCDB simple family (application)

DE 4310539 A 19930331; CN 94191666 A 19940325; DE 59406224 T 19940325; DE 9400343 W 19940325; EP 94911079 A 19940325; JP 51842994 A 19940325; KR 19950704180 A 19950928; US 52575895 A 19950925