

Title (en)

SHORT ARC HIGH-PRESSURE DISCHARGE LAMP-

Title (de)

KURZBOGEN-HOCHDRUCKENTLADUNGSLAMPE

Title (fr)

LAMPE A DECHARGE HAUTE PRESSION A ARC COURT

Publication

**EP 1481418 B1 20111130 (DE)**

Application

**EP 03720140 A 20030305**

Priority

- DE 0300707 W 20030305
- DE 10209426 A 20020305

Abstract (en)

[origin: WO03075310A1] The invention relates to a short arc high-pressure discharge lamp (1) for dc operation, comprising a discharge vessel (2) that has two necks (4) diametrically opposite each other, in which an anode (26) and a cathode (7) made of tungsten are melted in a gastight manner, and which has a filling made of at least one noble gas and possibly mercury. According to the invention, at least the material of the cathode tip (11) contains lanthanum oxide La<sub>2</sub>O<sub>3</sub> and at least another oxide from the group consisting of hafnium oxide HfO<sub>2</sub> and zirconium oxide ZrO<sub>2</sub> in addition to the above-mentioned tungsten.

IPC 8 full level

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CPC (source: EP KR US)

**H01J 61/073** (2013.01 - KR); **H01J 61/0732** (2013.01 - EP US); **H01J 61/0737** (2013.01 - EP US); **H01J 61/86** (2013.01 - EP KR US)

Cited by

WO2013113049A1; US11315782B2; DE102015218878A1; US10056245B2

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DOCDB simple family (publication)

**WO 03075310 A1 20030912**; CN 1639833 A 20050713; DE 10209426 A1 20030918; EP 1481418 A1 20041201; EP 1481418 B1 20111130; EP 1481418 B8 20120314; JP 2005519435 A 20050630; JP 4741190 B2 20110803; KR 100944818 B1 20100303; KR 20050004792 A 20050112; TW 200307307 A 20031201; TW I288943 B 20071021; US 2005104521 A1 20050519; US 7279839 B2 20071009

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