

Title (en)

Low pressure discharge lamp lighting device and illumination fixture using the same

Title (de)

Niederdruck-Beleuchtungsanordnung mit Hochdruckentladungslampe und Leuchte damit

Title (fr)

Dispositif d'éclairage d'une lampe de décharge basse pression et appareil d'éclairage l'utilisant

Publication

**EP 2230887 A1 20100922 (EN)**

Application

**EP 10001589 A 20100217**

Priority

JP 2009066547 A 20090318

Abstract (en)

[Object] To provide a low pressure discharge lamp lighting device which can stably performs dimmed lighting of the lamp to a lower luminous flux level as compared to a control to make a lamp current or a lamp power constant. [Means for Settlement] In a low pressure discharge lamp lighting device including an inverter circuit 4 including one or more switching elements Q1, Q2 for switching a DC voltage outputted from a DC voltage source Vdc, a driving circuit 8 for turning on/off the switching elements Q1, Q2 with a high frequency and a resonance circuit to which a voltage switched by the switching elements Q1, Q2 is applied and supplies a resonance voltage to a discharge lamp LA, wherein feedback means 5 adapted to adjust the DC voltage outputted from the DC voltage source Vdc or turning-on/off of the switching elements Q1, Q2 so that an output of the calculating means 10 which is obtained by dividing the voltage V1a of the discharge lamp LA detected by the lamp voltage detecting means 11 by a current I1a of the discharge lamp detected by the lamp current detecting means 13 becomes substantially equal to a reference voltage Vdim is provided.

IPC 8 full level

**H05B 41/298** (2006.01); **H05B 41/392** (2006.01)

CPC (source: EP)

**H05B 41/2985** (2013.01); **H05B 41/3925** (2013.01)

Citation (applicant)

- JP 2727476 B2 19980311
- JP 2005339972 A 20051208 - MATSUSHITA ELECTRIC WORKS LTD
- JP 2005339976 A 20051208 - MATSUSHITA ELECTRIC WORKS LTD

Citation (search report)

- [XYI] US 2005023995 A1 20050203 - OHNISHI NAOKI [JP], et al
- [Y] EP 1672963 A2 20060621 - TOSHIBA LIGHTING & TECHNOLOGY [JP]
- [AD] JP 2005339976 A 20051208 - MATSUSHITA ELECTRIC WORKS LTD
- [X] DENG E ET AL: "Negative incremental impedance and stability of fluorescent lamps", APPLIED POWER ELECTRONICS CONFERENCE AND EXPOSITION, 1997. APEC '97 CONFERENCE PROCEEDINGS 1997., TWELFTH ANNUAL ATLANTA, GA, USA 23-27 FEB. 1997, NEW YORK, NY, USA, IEEE, US LNKD- DOI:10.1109/APEC.1997.575779, vol. 2, 23 February 1997 (1997-02-23), pages 1050 - 1056, XP010215788, ISBN: 978-0-7803-3704-6

Cited by

WO2013034387A1; WO2012083324A1; WO2013034386A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**EP 2230887 A1 20100922; EP 2230887 B1 20121010**; JP 2010218963 A 20100930

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