

Title (en)

Discharge lamp lighting device and illumination fixture using the same

Title (de)

Entladungslampen-Beleuchtungsanordnung und Beleuchtungseinrichtung damit

Title (fr)

Dispositif d'éclairage d'une lampe de décharge et accessoire d'éclairage

Publication

EP 2381746 A3 20160928 (EN)

Application

EP 11162647 A 20110415

Priority

JP 2010100261 A 20100423

Abstract (en)

[origin: EP2381746A2] [Object] To provide a discharge lamp lighting device capable of reducing electric stress that is placed on each discharge lamp at the start time, and an illumination fixture using the same. [Means for Settlement] A plurality of discharge lamps La are lit by AC power to which DC power of a DC power source E is converted by an inverter circuit including a switching part 1 and a resonant part 2. The discharge lamp lighting device is provided with: a drive part 3 that drives respective switching elements Q1 and Q2 constituting the switching part 1; a control part 4 that controls the drive part 3; and a lighting detection part 5 that detects the start of a semi-lighting state where a part of the plurality of discharge lamps La is lit. When the lighting detection part 5 detects the start of the semi-lighting state, the control part 4 controls the drive part 3 so as to sufficiently increase a frequency of the AC power supplied to each of the discharge lamps La to decrease an inter-terminal voltage of each of the discharge lamps La, and thereby electric stress placed on each of the discharge lamps La is reduced.

IPC 8 full level

H05B 41/282 (2006.01); **H05B 41/298** (2006.01)

CPC (source: EP)

H05B 41/2827 (2013.01); **H05B 41/2988** (2013.01)

Citation (search report)

- [Y] JP 2010067562 A 20100325 - PANASONIC ELEC WORKS CO LTD
- [YD] JP 2008218333 A 20080918 - MATSUSHITA ELECTRIC WORKS LTD
- [Y] GB 2292843 A 19960306 - KOITO MFG CO LTD [JP]
- [Y] JP 2000012269 A 20000114 - MATSUSHITA ELECTRIC WORKS LTD
- [A] EP 1624730 A1 20060208 - MINEBEA CO LTD [JP]

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 11162647 A 20110415; JP 2010100261 A 20100423