

Title (en)  
LED LIGHTING DEVICE

Title (de)  
LED-BELEUCHTUNGSVORRICHTUNG

Title (fr)  
DISPOSITIF D'ÉCLAIRAGE À DEL

Publication  
**EP 2947966 A1 20151125 (EN)**

Application  
**EP 15168220 A 20150519**

Priority  
FI 20145450 A 20140519

Abstract (en)  
The present invention relates to a LED lighting device that comprises a rectifying circuit (101) configured to rectify an AC input voltage, at least three LED circuits (102, 103, 104, 105), a switching circuit (106, 107, 108, 109) for each LED circuit (102, 103, 104, 105), a constant current regulating circuit (110) configured to regulate the current fed to the LED circuits (102, 103, 104, 105), and a compensating circuit (115) connected to the LED circuit (102) having the lowest number of LEDs or to the LED circuit having the second lowest number of LEDs and configured to feed current to said LED circuit (102) when the voltage at a node between the constant current regulating circuit (110) and the LED circuit (102) having the lowest number of LEDs is smaller than a compensating threshold voltage.

IPC 8 full level  
**H05B 44/00** (2022.01)

CPC (source: EP)  
**H05B 45/48** (2020.01)

Citation (search report)

- [A] US 2008252222 A1 20081016 - CUSINATO PAOLO [FR], et al
- [A] DE 19950135 A1 20010419 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
- [A] EP 2603060 A1 20130612 - PANASONIC CORP [JP]
- [A] US 2011084619 A1 20110414 - GRAY RICHARD LANDRY [US], et al

Cited by  
CN109039070A

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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