Title (en)

LIGHT-EMITTING DIODE LIGHTING DEVICE HAVING MULTIPLE DRIVING STAGES

Title (de)

LEUCHTDIODENBELEUCHTUNGSVORRICHTUNG MIT MEHREREN ANSTEUERUNGSSTUFEN

Title (fr)

DISPOSITIF D'ÉCLAIRAGE À DIODE ÉLECTROLUMINESCENTE AYANT DE MULTIPLES ÉTAGES D'ENTRAÎNEMENT

Publication

EP 2945466 A3 20160720 (EN)

Application

EP 15167698 A 20150513

Priority

US 201414277029 A 20140513

Abstract (en)

[origin: EP2945466A2] An LED lighting device includes a slave driving stage and a master driving stage. The slave driving stage includes a first luminescent device and a first current controller for providing a constant current setting in an ON phase. The master driving stage includes a second luminescent device and a current control unit having a second current controller and a current envelope controller. The second current controller provides a current envelope in the ON phase. The current envelope controller sets a level of the current envelope according to a rectified AC voltage. The driving current is regulated by the first current controller according to the constant current setting when the constant current setting is smaller than the level of the current envelope, or by the second current controller according to the current envelope when the level of the current envelope is smaller than the constant current setting.

IPC 8 full level

H05B 44/00 (2022.01)

CPC (source: EP US)

H05B 45/10 (2020.01 - EP US); **H05B 45/48** (2020.01 - EP US)

Citation (search report)
- [XYI] US 2013127354 A1 20130523 - CHIANG YUNG-HSIN [TW], et al
- [Y] US 2011194311 A1 20110811 - GAKNOKI YURY [US], et al
- [Y] WO 2013100736 A1 20130704 - SEOUL SEMICONDUCTOR CO LTD [KR]
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Cited by

CN113939063A; AT17629U1

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)

EP 2945466 A2 20151118; **EP 2945466 A3 20160720**

DOCDB simple family (application)

EP 15167698 A 20150513