

Title (en)

Hybrid control of a driver for light-emitting semiconductor devices

Title (de)

Hybridsteuerung eines Treibers für lichtemittierende Halbleiterbauelemente

Title (fr)

Commande hybride d'un conducteur pour dispositifs semi-conducteurs émetteurs de lumière

Publication

EP 3024301 A1 20160525 (EN)

Application

EP 14193639 A 20141118

Priority

EP 14193639 A 20141118

Abstract (en)

A technique for providing output current for one or more light-emitting semiconductor devices is provided. According to an example embodiment, the technique comprises controlling supply of said output current from a power converter means for said one or more light-emitting semiconductor devices and regulating electrical characteristics of said output current in accordance with requested light output characteristics, said regulating comprising alternately enabling and disabling provision of said output current at a selectable duty cycle to provide duty cycle based output current limitation and controlling provision of said output current at a selectable current level to enable level based output current limitation, so as to regulate the output current to exhibit an average level that corresponds to said requested light output characteristics by a combination of the duty cycle based output current limitation and the level based output current limitation in dependence of a selected one of a plurality of different predefined mapping functions.

IPC 8 full level

H05B 44/00 (2022.01)

CPC (source: EP US)

H05B 45/10 (2020.01 - EP US); **H05B 45/375** (2020.01 - EP US)

Citation (search report)

- [XA] EP 1689212 A1 20060809 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE], et al
- [XAI] US 2014055045 A1 20140227 - RAVAL PRANAV [US], et al
- [XAI] US 2006273331 A1 20061207 - LIM KEVIN LEN L [MY], et al
- [A] WO 2010067292 A2 20100617 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [A] WO 2008112735 A2 20080918 - CIRRUS LOGIC INC [US]

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 3024301 A1 20160525

DOCDB simple family (application)

EP 14193639 A 20141118