

Title (en)

Dimmable LED driver, and method for producing a dimming signal

Title (de)

Dimmbarer LED-Treiber und Verfahren zur Herstellung eines Dimmsignals

Title (fr)

Commande de DEL à intensité réglable et procédé de production d'un signal de gradation

Publication

**EP 3043625 A1 20160713 (EN)**

Application

**EP 15150646 A 20150109**

Priority

EP 15150646 A 20150109

Abstract (en)

A driver device provides variable electric current to at least one semiconductor light-emitting device. It comprises a switched-mode power supply with a current switch for generating an output current of the driver device, and a switch driver circuit (202) to provide switching pulses to said current switch (201) at a switching frequency. The switch driver circuit (202) responds to voltages exceeding a first threshold at a control input (EN/DIM) by enabling the providing of switching pulses. It responds to voltages between said first threshold and a second, further threshold by allowing an amplitude of a measured current to reach a value proportional to the voltage at the control input. A control pulse formatter (203) provides the control input (EN/DIM) with control pulses of variable amplitude exceeding said first threshold at a pulse width modulation frequency smaller than said switching frequency.

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)

- [A] WO 2013014607 A1 20130131 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
- [A] US 6987787 B1 20060117 - MICK PERRY J [US]
- [A] US 2008284346 A1 20081120 - LEE SANG YUN [KR]

Cited by

EP4376553A1; CN114285316A; CN112533323A; EP3280226A1; CN108322959A; EP3481155A1; CN115802546A; EP3370479A1

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 3043625 A1 20160713; EP 3043625 B1 20180808**

DOCDB simple family (application)

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