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 B1 20180808 (EN)

Application

EP 15150646 A 20150109

Priority

EP 15150646 A 20150109

Abstract (en)

[origin: EP3043625A1] 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)

Cited by

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

Designated contracting state (EPC)

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DOCDB simple family (publication)

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