

Title (en)

Driver circuit for driving a lighting device and method for operating the same

Title (de)

Treiberschaltung zum Antrieb einer Beleuchtungsvorrichtung und Betriebsverfahren dafür

Title (fr)

Circuit de commande d'un dispositif d'éclairage et son procédé de fonctionnement

Publication

EP 2373124 B1 20131023 (EN)

Application

EP 10158998 A 20100401

Priority

EP 10158998 A 20100401

Abstract (en)

[origin: EP2373124A1] The invention provides a driver circuit for driving a lighting device, for being connected between a dimmed supply voltage and said lighting device. The driver circuit comprises a first bleeder resistor, which has a first end connected to a high-voltage terminal of the supply voltage, a second bleeder resistor, which has a first end connected to a low-voltage terminal of the supply voltage, a first semiconductor switching element connected between the second ends of the first and second bleeder resistors, and a second semiconductor switching element connected between the second end of the second bleeder resistor and the low-voltage terminal of the supply voltage. Under a further aspect, the invention provides a method for operating such a driver circuit. The method comprises detecting a predefined low-current phase of an input current of the driver circuit, the input current being below a predefined current threshold and the supply voltage being not below a predefined voltage threshold during the low-current phase. In a further step, upon detecting the low-current phase, a voltage drop across the second bleeder resistor is regulated during the low-current phase.

IPC 8 full level

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CPC (source: EP US)

H05B 45/10 (2020.01 - EP US); **H05B 45/14** (2020.01 - EP); **H05B 45/3575** (2020.01 - EP US)

Cited by

CN106664766A; CN104584689A; EP2938164A3; US9402293B2; US9532416B2; CN109275230A; CN110536510A; EP3644691A1; EP3772871A1; EP2890220A1; CN104735860A; WO2018032511A1; US9565725B2; EP2608637B1; EP3772871B1

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DOCDB simple family (publication)

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