

Title (en)

Circuits and methods for driving LED light sources

Title (de)

Schaltungen und Verfahren zur Ansteuerung von LED-Lichtquellen

Title (fr)

Circuits et procédés de pilotage de sources lumineuses à DEL

Publication

**EP 2611263 A3 20140305 (EN)**

Application

**EP 12180381 A 20120814**

Priority

- CN 201110447599 A 20111228
- US 201213369620 A 20120209

Abstract (en)

[origin: EP2611263A2] A driving circuit for controlling power of a light-emitting diode (LED) light source includes a transformer, a switch controller, and a dimming controller. The transformer has a primary winding operable for receiving input power from an AC/DC converter and a secondary winding operable for providing output power to the LED light source. The switch controller coupled between an optical coupler and the primary winding is operable for receiving a feedback signal indicative of a target level of a current flowing through the LED light source from the optical coupler, and for controlling input power to the primary winding according to the feedback signal. The dimming controller coupled to the secondary winding is operable for receiving a switch monitoring signal indicative of an operation of a power switch coupled between an AC power source and the AC/DC converter, and for regulating the output power of the transformer by adjusting the feedback signal according to the switch monitoring signal.

IPC 8 full level

**H05B 44/00** (2022.01)

CPC (source: EP US)

**H05B 45/37** (2020.01 - EP US); **H05B 45/382** (2020.01 - EP US); **H05B 45/375** (2020.01 - EP US)

Citation (search report)

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- [YA] US 2011109230 A1 20110512 - SIMI VICTOR M [US]
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Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2611263 A2 20130703**; **EP 2611263 A3 20140305**; BR 102012033492 A2 20150505; IN 931DE2012 A 20150904; JP 2013140931 A 20130718

DOCDB simple family (application)

**EP 12180381 A 20120814**; BR 102012033492 A 20121228; IN 931DE2012 A 20120328; JP 2012104480 A 20120501