

Title (en)

Circuit and method for driving light emitting diodes

Title (de)

Einrichtung und Verfahren zur Ansteuerung von Leuchtdioden

Title (fr)

Appareil et méthode de commande de diodes électroluminescentes

Publication

EP 2001132 A1 20081210 (EN)

Application

EP 07010689 A 20070530

Priority

EP 07010689 A 20070530

Abstract (en)

A LED driver comprises a microcontroller that is adapted to perform at least two of the following functions: LED current regulation; dimming control; thermal management; input power absorption control; input current absorption control; alarms and fault conditions management; and LED light optical feedback.

IPC 8 full level

H03K 19/0175 (2006.01); **H05B 33/08** (2006.01); **H05B 44/00** (2022.01)

CPC (source: EP US)

H05B 45/12 (2020.01 - EP US); **H05B 45/18** (2020.01 - EP US); **H05B 45/56** (2020.01 - EP US)

Citation (search report)

- [X] WO 2007019663 A1 20070222 - TIR SYSTEMS LTD [CA], et al
- [X] US 2004160199 A1 20040819 - MORGAN FREDERICK M [US], et al
- [X] US 2005122060 A1 20050609 - YU ANDRE [TW], et al
- [X] US 2006261752 A1 20061123 - LEE SANG Y [KR]
- [X] US 2003214242 A1 20031120 - BERG-JOHANSEN ROAR [US]
- [X] US 2004212321 A1 20041028 - LYS IHOR A [US], et al
- [X] US 2004085030 A1 20040506 - LAFLAMME BENOIT [CA], et al
- [X] WO 2006056066 A1 20060601 - TIR SYSTEMS LTD [CA], et al
- [X] US 2007103086 A1 20070510 - NEUDORF JASON CHRISTOPHER J [CA], et al
- [X] US 2004135522 A1 20040715 - BERMAN GEORGE [US], et al
- [X] DE 10201053 A1 20020801 - VISTEON GLOBAL TECH INC [US]
- [X] US 2003057888 A1 20030327 - ARCHENHOLD GEOFFREY HOWARD GIL [GB], et al
- [X] US 2007115662 A1 20070524 - ROBERTS JOHN K [US], et al
- [X] US 2002047624 A1 20020425 - STAM JOSEPH S [US], et al
- [X] US 2006006821 A1 20060112 - SINGER JEFFREY M [US], et al
- [X] US 2006245174 A1 20061102 - ASHDOWN IAN [CA], et al
- [X] US 2004207341 A1 20041021 - CALLAHAN JEFFREY SCOTT [US]
- [X] US 6150774 A 20001121 - MUELLER GEORGE G [US], et al
- [A] US 2004136208 A1 20040715 - AGARWAL VIVEK [IN], et al
- [X] MIRIBEL-CATALA P LI ET AL: "An integrated digital PFM DC-DC boost converter for a power management application: a RGB backlight LED system driver", IECON-2002. PROCEEDINGS OF THE 28TH. ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY. SEVILLA, SPAIN, NOV. 5 - 8, 2002, ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY, NEW YORK, NY : IEEE, US, vol. VOL. 1 OF 4. CONF. 28, 5 November 2002 (2002-11-05), pages 37 - 42, XP010633128, ISBN: 0-7803-7474-6

Citation (examination)

WO 2006119582 A1 20061116 - BERKELJON TAMA [AU]

Cited by

DE102009052836A1; DE102012215727A1; US8471501B2; US9516711B2; US8519642B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 2001132 A1 20081210

DOCDB simple family (application)

EP 07010689 A 20070530