

Title (en)

Bypass circuitry for serially coupled light emitting diodes and associated methods of operation

Title (de)

Bypass-Schaltkreis für seriell gekoppelte lichtemittierende Dioden und zugehörige Betriebsverfahren

Title (fr)

Circuit de dérivation pour diodes électroluminescentes couplées en série et procédés de fonctionnement associés

Publication

**EP 2427033 A3 20120523 (EN)**

Application

**EP 11180344 A 20110907**

Priority

- US 38064610 P 20100907
- US 201113051437 A 20110318
- CN 201010285957 A 20100915

Abstract (en)

[origin: EP2427033A2] The present technology is generally related to LED bypass circuits and associated methods of operation. In one embodiment, an LED bypass circuit includes a monitoring circuit and a switch. The monitoring circuit is coupled to the LED to monitor the differential voltage across the LED. The switch is coupled to the LED in parallel. When an open status is detected by the monitoring circuit, the switch is turned on to bypass the LED.

IPC 8 full level

**H05B 44/00** (2022.01)

CPC (source: EP)

**H05B 45/48** (2020.01); **H05B 45/58** (2020.01)

Citation (search report)

- [X] WO 2009138907 A2 20091119 - NXP BV [NL], et al
- [X] US 2009085489 A1 20090402 - CHANG PI-LUN [TW], et al
- [X] WO 2010034739 A1 20100401 - HELLA KGAA HUECK & CO [DE], et al

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JP2014017463A; CN112204867A; EP2670218A1; KR20130135775A; CN111555600A; US9357597B2; US11296529B2; EP2675247A1; CN103491668A; EP2800457A3; WO2019224136A1

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 2427033 A2 20120307; EP 2427033 A3 20120523; EP 2427033 B1 20141112**

DOCDB simple family (application)

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