

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 A2 20120307 (EN)**

Application

**EP 11180344 A 20110907**

Priority

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

Abstract (en)

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)

Cited by

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

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Designated extension state (EPC)

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DOCDB simple family (publication)

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