

Title (en)
LED failure detection

Title (de)
Fehlererkennung von Leuchtdioden

Title (fr)
Détection de défaillance pour LED

Publication
EP 2343954 A3 20120606 (DE)

Application
EP 11156563 A 20070419

Priority
• EP 07724386 A 20070419
• DE 102006018575 A 20060421

Abstract (en)
[origin: WO2007121927A1] The invention relates to an operating circuit for an LED system that has one or more LEDs connected in series, to each of which an element is connected in parallel that takes over the current through the LED in case of a cut-out failure of an LED. An acquisition unit is also provided that is designed to detect a cut-out failure of at least one LED by monitoring the temporal development of the diode current and the voltage on the LED system.

IPC 8 full level
H05B 44/00 (2022.01); **H05B 37/03** (2006.01)

CPC (source: EP)
H05B 45/58 (2020.01); **H05B 47/235** (2020.01)

Citation (search report)
• [XY] DE 19841490 A1 20000323 - SIEMENS AG [DE]
• [Y] US 2006061303 A1 20060323 - TAKEDA HITOSHI [JP], et al
• [A] US 2004041702 A1 20040304 - TOULMIN JOHN W [CA], et al
• [XY] EP 1322139 A1 20030625 - TOYODA GOSEI KK [JP]
• [Y] GB 2278717 A 19941207 - FUJITSU LTD [JP]
• [Y] WO 03024159 A2 20030320 - AEROSPACE OPTICS INC [US]
• [A] GB 2150372 A 19850626 - FERRANTI PLC
• [A] WO 0191521 A1 20011129 - SICKINGER MONIKA [DE], et al
• [A] US 2005001562 A1 20050106 - PEDERSON JOHN C [US]
• [A] EP 0786714 A2 19970730 - KAMMERER GMBH M [DE]

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)
DE 102006018575 A1 20071025; EP 2014136 A1 20090114; EP 2014136 B1 20131211; EP 2343954 A2 20110713; EP 2343954 A3 20120606; WO 2007121927 A1 20071101

DOCDB simple family (application)
DE 102006018575 A 20060421; EP 07724386 A 20070419; EP 11156563 A 20070419; EP 2007003449 W 20070419