

Title (en)

LED SEMICONDUCTOR ELEMENT, AND USE THEREOF

Title (de)

LED-HALBLEITERKÖRPER UND VERWENDUNG EINES LED-HALBLEITERKÖRPERS

Title (fr)

CORPS SEMI-CONDUCTEUR DE DEL ET UTILISATION DE CELUI-CI

Publication

EP 2067178 A1 20090610 (DE)

Application

EP 07817458 A 20070828

Priority

- DE 2007001535 W 20070828
- DE 102006046039 A 20060928
- DE 102006051745 A 20061102

Abstract (en)

[origin: WO2008043324A1] The invention relates to an LED semiconductor element comprising at least one first radiation-generating active layer and at least one second radiation-generating active layer which is stacked on top of the first active layer in a vertical direction and is serially connected to the first active layer. The first active layer and the second active layer are connected in an electrically conducting manner by means of a contact zone. The invention further relates to different uses of said LED semiconductor element.

IPC 8 full level

H01L 25/075 (2006.01); **H01L 33/08** (2010.01)

CPC (source: EP US)

H01L 25/0756 (2013.01 - EP US); **H01L 33/08** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US)

C-Set (source: EP US)

H01L 2924/0002 + H01L 2924/00

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2008043324 A1 20080417; CN 101517757 A 20090826; CN 101517757 B 20110525; CN 102176461 A 20110907;
CN 102176461 B 20140820; DE 102006051745 A1 20080515; DE 102006051745 B4 20240208; EP 2067178 A1 20090610;
JP 2010505244 A 20100218; JP 5409366 B2 20140205; KR 101386817 B1 20140417; KR 20090060358 A 20090611;
TW 200824155 A 20080601; TW I355758 B 20120101; US 2009309120 A1 20091217; US 2011227124 A1 20110922; US 8003974 B2 20110823;
US 8314431 B2 20121120

DOCDB simple family (application)

DE 2007001535 W 20070828; CN 200780035389 A 20070828; CN 201110084851 A 20070828; DE 102006051745 A 20061102;
EP 07817458 A 20070828; JP 2009529513 A 20070828; KR 20097008355 A 20070828; TW 96135104 A 20070920;
US 201113116846 A 20110526; US 44175807 A 20070828