

Title (en)

RADIATION-EMITTING COMPONENT AND METHOD FOR PRODUCING A RADIATION-EMITTING COMPONENT

Title (de)

STRAHLUNGSEMITTIERENDES BAUELEMENT UND VERFAHREN ZUR HERSTELLUNG EINES STRAHLUNGSEMITTIERENDEN BAUELEMENTS

Title (fr)

COMPOSANT ÉMETTEUR DE RAYONNEMENT ET PROCÉDÉ DE FABRICATION D'UN COMPOSANT ÉMETTEUR DE RAYONNEMENT

Publication

**EP 2286470 A1 20110223 (DE)**

Application

**EP 09765426 A 20090508**

Priority

- DE 2009000647 W 20090508
- DE 102008028886 A 20080618

Abstract (en)

[origin: WO2009152790A1] A radiation-emitting component is provided, which has a carrier (1) and at least one semiconductor chip (2) disposed thereon. The semiconductor chip (2) has an active layer for producing electromagnetic radiation and a first contact layer (21). In order to electrically contact the at least one semiconductor chip (2), the carrier (1) has at least one first and a second contact structure (4a, 4b). The semiconductor chip (2) is connected by the first contact layer (21) to the first contact structure (4a) in an electrically conductive manner. A passivation layer (5) is provided at least in some regions on at least one lateral surface of the semiconductor chip (2). A second contact layer (6), which leads from the surface of the semiconductor chip (2) facing away from the carrier (1) via the passivation layer (5) to the second contact structure (4b), is provided on at least one partial region of the passivation layer (5). The semiconductor chip (2) has no epitaxial growth substrate (10). Furthermore, a method for producing such a component is provided.

IPC 8 full level

**H01L 33/38** (2010.01); **H01L 33/00** (2010.01); **H01L 33/40** (2010.01); **H01L 33/48** (2010.01); **H01L 33/62** (2010.01)

CPC (source: EP KR)

**H01L 24/24** (2013.01 - EP KR); **H01L 24/82** (2013.01 - EP KR); **H01L 33/385** (2013.01 - EP KR); **H01L 33/40** (2013.01 - EP KR); **H01L 33/486** (2013.01 - EP KR); **H01L 33/62** (2013.01 - EP KR); **H01L 33/58** (2013.01 - EP); **H01L 2224/24051** (2013.01 - EP); **H01L 2224/24226** (2013.01 - EP); **H01L 2224/32225** (2013.01 - EP); **H01L 2224/73267** (2013.01 - EP); **H01L 2924/01005** (2013.01 - EP); **H01L 2924/01006** (2013.01 - EP); **H01L 2924/01013** (2013.01 - EP); **H01L 2924/01023** (2013.01 - EP); **H01L 2924/0103** (2013.01 - EP); **H01L 2924/01033** (2013.01 - EP); **H01L 2924/01049** (2013.01 - EP); **H01L 2924/01075** (2013.01 - EP); **H01L 2924/01079** (2013.01 - EP); **H01L 2924/01327** (2013.01 - EP); **H01L 2924/014** (2013.01 - EP); **H01L 2924/12036** (2013.01 - EP)

C-Set (source: EP)

1. **H01L 2224/73267** + **H01L 2224/32225** + **H01L 2224/24226** + **H01L 2924/00**
2. **H01L 2924/12036** + **H01L 2924/00**

Citation (examination)

- EP 1569283 A1 20050831 - LUMILEDS LIGHTING LLC [US]
- WO 2007108663 A1 20070927 - IND ACADEMIC COOP [KR], et al
- EP 1191608 A2 20020327 - LUMILEDS LIGHTING LLC [US]
- See also references of WO 2009152790A1

Designated contracting state (EPC)

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 SE SI SK TR

Designated extension state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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