

Title (en)
OPTOELECTRONIC DEVICE

Title (de)
OPTOELEKTRONISCHE VORRICHTUNG

Title (fr)
DISPOSITIF OPTOÉLECTRONIQUE

Publication
EP 2554019 B1 20170621 (DE)

Application
EP 11720049 A 20110330

Priority
• DE 102010013493 A 20100331
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Abstract (en)
[origin: WO2011121046A1] An optoelectronic device for emitting mixed light comprises: - a first semiconductor light source (1) having a first light-emitting diode (11), which emits light in a first wavelength range with a first intensity during operation, wherein the first wavelength range and/or the first intensity have/has a first temperature dependence, - a second semiconductor light source (2) having a second light-emitting diode (21, 22), which emits light in a second wavelength range with a second intensity during operation, wherein the first and the second wavelength ranges differ from one another and wherein the second wavelength range and/or the second intensity have/has a second temperature dependence, which differs from the first temperature dependence, - a third semiconductor light source (3) having a third light-emitting diode (31), which emits light in a third wavelength range with a third intensity during operation, - a resistance element (4) having a temperature-dependent electrical resistance, and - a semiconductor light source control element (9) for controlling the intensity of the third semiconductor light source (3), - wherein the following are connected in a parallel circuit: the first series circuit comprising the resistance element (4) and the first semiconductor light source (1) in a first branch (101) of the parallel circuit, the second semiconductor light source (2) in a second branch (102) of the parallel circuit and a second series circuit comprising the third semiconductor light source (3) and the semiconductor light source control element (9) in a third branch (103) of the parallel circuit.

IPC 8 full level
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Citation (examination)
• US 2007171159 A1 20070726 - LEE DONG WOO [KR]
• US 2010026191 A1 20100204 - RADERMACHER HARALD JOSEF GUNTHER [DE], et al
• DE 10304875 A1 20040819 - PATENT TREUHAND GES FUER ELEKTRISCHE GLUEHLAMPEN MBH [DE]
• US 2009009100 A1 20090108 - ROOYMANS JOHANNUS OTTO [NL]
• DE 102004057379 B3 20060810 - SCHOTT AG [DE]
• DE 102008025865 A1 20091203 - LUMITECH PRODUKTION UND ENTWIC [AT]

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