

Title (en)
OPTOELECTRONIC SEMICONDUCTOR COMPONENT

Title (de)
OPTOELEKTRONISCHES HALBLEITERBAUTEIL

Title (fr)
COMPOSANT SEMICONDUCTEUR OPTOÉLECTRONIQUE

Publication
EP 2409368 A2 20120125 (DE)

Application
EP 10700750 A 20100120

Priority
• EP 2010050647 W 20100120
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Abstract (en)
[origin: WO2010105865A2] At least one embodiment of the optoelectronic semiconductor component (1) comprises an epitactically grown semiconductor body (2) having at least one active layer (3). The semiconductor body (2) of the semiconductor component (1) furthermore comprises at least one barrier layer (4), wherein the barrier layer (4) directly adjoins the active layer (3). In a variation direction or a longitudinal direction (L), perpendicular to a growth direction (G) of the semiconductor body (2), a material composition and/or a layer thickness of the active layer (3) and/or the barrier layer (4) is varied. Due to the variation of the material composition and/or the layer thickness of the active layer (3) and/or the barrier layer (4), an emission wavelength (?) of a radiation (R) generated in the active layer (3), likewise in the variation direction or in the longitudinal direction (L), is set.

IPC 8 full level
H01S 3/0941 (2006.01); **H01S 5/40** (2006.01); **H01S 5/42** (2006.01)

CPC (source: EP US)
H01S 3/0941 (2013.01 - EP US); **H01S 5/4031** (2013.01 - EP US); **H01S 5/405** (2013.01 - EP US); **H01S 5/423** (2013.01 - EP US); **H01S 3/094096** (2013.01 - EP US); **H01S 5/04256** (2019.07 - EP US); **H01S 5/1053** (2013.01 - EP US); **H01S 5/3095** (2013.01 - EP US); **H01S 5/4043** (2013.01 - EP US); **H01S 5/4087** (2013.01 - EP US)

Citation (search report)
See references of WO 2010105865A2

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