

Title (en)
SURFACE-EMITTING SEMICONDUCTOR LASER COMPONENT FEATURING EMISSION IN A VERTICAL DIRECTION

Title (de)
OBERFLÄCHENEMITTIERENDES HALBLEITERLASERBAUELEMENT MIT EINER VERTIKALEN EMISSIONSRICHTUNG

Title (fr)
COMPOSANT DE LASER A SEMI-CONDUCTEURS A EMISSION PAR LA SURFACE PRESENTANT UNE DIRECTION D'EMISSION VERTICALE

Publication
EP 1763913 A2 20070321 (DE)

Application
EP 05753554 A 20050429

Priority

- DE 2005000791 W 20050429
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- DE 102004040077 A 20040818

Abstract (en)
[origin: WO2005117070A2] Disclosed is a surface-emitting semiconductor laser component, especially an electrically pumped semiconductor laser component, which features emission in a vertical direction and is used for generating laser radiation by means of an external optical resonator (4,5). Said semiconductor laser component comprises a semiconductor element with a sequence (2) of semiconductor layers which is provided with a lateral main direction of extension and an active zone (3) used for generating radiation. A radiation-permeable contact layer (6) is disposed within the resonator and is connected to the semiconductor element in an electrically conducting manner.

IPC 8 full level
H01S 5/042 (2006.01); **H01L 21/00** (2006.01); **H01S 5/183** (2006.01); **H01S 3/109** (2006.01); **H01S 5/02** (2006.01); **H01S 5/14** (2006.01)

CPC (source: EP KR US)
H01S 3/0941 (2013.01 - KR); **H01S 5/04253** (2019.07 - EP US); **H01S 5/183** (2013.01 - KR); **H01S 5/18394** (2013.01 - EP US); **H01S 3/109** (2013.01 - EP US); **H01S 5/0215** (2013.01 - EP US); **H01S 5/0217** (2013.01 - EP US); **H01S 5/141** (2013.01 - EP US); **H01S 5/18355** (2013.01 - EP US); **H01S 5/18386** (2013.01 - EP US); **H01S 2301/18** (2013.01 - EP US)

Citation (search report)
See references of WO 2005117070A2

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Cited by
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Designated contracting state (EPC)
DE

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