

Title (en)
METHODS FOR POLARIZATION CONTROL FOR VCSELS

Title (de)
VERFAHREN ZUR POLARISATIONSTEUERUNG FÜR VCSELS

Title (fr)
PROCEDES DE COMMANDE DE POLARISATION POUR LASERS A CAVITE VERTICALE ET A EMISSION PAR LA SURFACE (VCSEL)

Publication
EP 1719220 A4 20080806 (EN)

Application
EP 05723667 A 20050225

Priority
• US 2005005894 W 20050225
• US 78620304 A 20040225

Abstract (en)
[origin: WO2005082010A2] A vertical cavity surface emitting laser (VCSEL) having strain or stress elements added for stable polarization control. The elements may disturb the symmetrical stress of the VCSEL structure to induce stable polarization control of its output. Such elements may be attached to the top surface or the sides of the VCSEL, or may be inserted in some of the layers of the VCSEL structure. Some elements may involve the removal of material from the sides of the VCSEL.

IPC 8 full level
H01S 5/00 (2006.01); **H01S 3/10** (2006.01); **H01S 5/06** (2006.01); **H01S 5/183** (2006.01)

CPC (source: EP)
H01S 5/0607 (2013.01); **H01S 5/18355** (2013.01); **H01S 5/18308** (2013.01); **H01S 5/18338** (2013.01); **H01S 5/18363** (2013.01); **H01S 5/18372** (2013.01); **H01S 5/18391** (2013.01)

Citation (search report)
• [X] JP H11330630 A 19991130 - SEIKO EPSON CORP
• [X] JP 2000353858 A 20001219 - NIPPON TELEGRAPH & TELEPHONE
• [X] EP 1104056 A1 20010530 - AVALON PHOTONICS LTD [CH]
• [X] US 6603783 B1 20030805 - KAWASE TAKEO [GB], et al
• [X] STREUBEL K ET AL: "1.26 [micro]m vertical cavity laser with two InP/air-gap reflectors", ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 32, no. 15, 18 July 1996 (1996-07-18), pages 1369 - 1370, XP006005428, ISSN: 0013-5194
• See references of WO 2005082010A2

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CN102447220A

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WO 2005082010 A2 20050909; **WO 2005082010 A3 20060126**; CA 2556709 A1 20050909; EP 1719220 A2 20061108; EP 1719220 A4 20080806

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