

Title (en)

TUNEABLE VERTICAL CAVITY LASER AMPLIFIER

Title (de)

ABSTIMMBARER LASER VERSTÄRKER MIT SENKRECHTEM RESONATOR

Title (fr)

LASER AMPLIFICATEUR ACCORDABLE A CAVITE VERTICALE

Publication

**EP 1393419 A1 20040303 (FR)**

Application

**EP 02747508 A 20020605**

Priority

- FR 0201922 W 20020605
- FR 0107333 A 20010605

Abstract (en)

[origin: FR2825524A1] A tuneable laser amplifier with a vertical cavity incorporates, inside the cavity (25), at least one electro-optical element able to tune the wavelength (  $\lambda$  ) of the laser amplifier. Independent claims are also included for the following: (a) a matrix of components incorporating at least two such tuneable laser amplifiers; (b) a high output telecommunications system incorporating such a laser amplifier co-operating with a fibre optic; and (c) the production of a laser amplifier with a vertical cavity.

IPC 1-7

**H01S 5/183**

IPC 8 full level

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CPC (source: EP US)

**H01S 5/18302** (2013.01 - EP US); **H01S 5/0607** (2013.01 - EP US); **H01S 5/50** (2013.01 - EP US)

Citation (search report)

See references of WO 02099941A1

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**FR 2825524 A1 20021206**; **FR 2825524 B1 20070126**; CN 1537350 A 20041013; EP 1393419 A1 20040303; JP 2004528733 A 20040916; US 2004208205 A1 20041021; WO 02099941 A1 20021212

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**FR 0107333 A 20010605**; CN 02811443 A 20020605; EP 02747508 A 20020605; FR 0201922 W 20020605; JP 2003502932 A 20020605; US 47982204 A 20040603