

Title (en)

LASER DIODE COMPRISING A VERTICAL RESONATOR AND A METHOD FOR THE PRODUCTION THEREOF

Title (de)

LASERDIODE MIT VERTIKALRESONATOR UND VERFAHREN ZU SIENER HERSTELLUNG

Title (fr)

DIODE LASER A RESONATEUR VERTICAL ET PROCEDE DE FABRICATION ASSOCIE

Publication

**EP 1468476 A1 20041020 (DE)**

Application

**EP 02706656 A 20020125**

Priority

DE 0200337 W 20020125

Abstract (en)

[origin: WO03063310A1] The invention relates to a laser diode comprising a vertical resonator and to a method for the production thereof, whereby at least one active layer (2) is arranged between reflective layers. The invention is characterised in that at least one anti-oxidation layer (1) consisting of a III-V semiconductor material with a proportion of molar aluminium of less than 0.7 and/or at least one anti-oxidation layer (1) consisting of a III-V semiconductor material with an optical depth of at least two quarter waves is arranged between the reflective layers (3), thus preventing distortion caused by unintentional oxidation.

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IPC 8 full level

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