

Title (en)

SURFACE-EMITTING SEMICONDUCTOR LASER COMPONENT HAVING A VERTICAL EMISSION DIRECTION

Title (de)

OBERFLÄCHENEMITTIERENDES HALBLEITERLASERBAUELEMENT MIT EINER VERTIKALEN EMISSIONSRICHTUNG

Title (fr)

COMPOSANT DE LASER A SEMI-CONDUCTEUR EMETTANT PAR LA SURFACE MUNI D'UN DISPOSITIF D'EMISSION VERTICAL

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2010051784A2] The invention relates to a surface-emitting semiconductor laser component having a vertical emission direction, comprising a semiconductor body which has a first resonator mirror (2), a second resonator mirror (4), and an active zone (3) suited to generate radiation. The first resonator mirror (2) comprises alternating stacked first layers (2a) having a first composition and second layers (2b) having a second composition. The first layers (2a) have oxidized regions (8a). Furthermore, at least the first layers (2a) each comprise a doping agent, wherein at least one layer (21a) of the first layers (2a) has a doping agent concentration that differs from the doping agent concentration of the other first layers (2a).

IPC 8 full level

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CPC (source: EP KR US)

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