

Title (en)

DIODE LASER COMPRISING AN OPTICAL DEVICE FOR INCREASING THE BEAM DENSITY OF AN OUTPUT LASER BEAM EMITTED BY SAID LASER

Title (de)

DIODENLASER MIT EINER OPTISCHEN EINRICHTUNG ZUR ERHÖHUNG DER STRAHLDICHTE EINES AUS IHM AUSTRETENDEN AUSGANGSLASERSTRAHLS

Title (fr)

LASER A DIODES COMPORTANT UN SYSTEME OPTIQUE DESTINE A AUGMENTER LA RADIANCE D'UN FAISCEAU LASER DE SORTIE EMIS PAR LE LASER

Publication

**EP 1779482 A1 20070502 (DE)**

Application

**EP 05775011 A 20050803**

Priority

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Abstract (en)

[origin: WO2006021298A1] The invention relates to a diode laser containing an optical device (10) which is used to increase the beam density of an output laser beam (12) which is emitted by said laser to the place of an object (16), said laser being made of a plurality of partial beams (8<sup>(1)</sup>, 8<sup>(2)</sup>, ... 8<sup>(n)</sup>) which are produced by a plurality of diode laser elements (2<sup>(1)</sup>, 2<sup>(2)</sup>, ... 2<sup>(n)</sup>). The optical device (10) is arranged downstream from the diode laser elements (2<sup>(1)</sup>, 2<sup>(2)</sup>, ... 2<sup>(n)</sup>) and contains a first Bragg grating volume (18) which only reflects a spectral region (?<sub>B</sub>)

IPC 8 full level

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CPC (source: EP)

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