

Title (en)

COHERENT BEAM RECOMBINATION LASER SOURCE

Title (de)

KOHÄRENTSTRAHL-REKOMBINATIONS-LASERQUELLE

Title (fr)

SOURCE LASER A RECOMBINAISON COHERENTE DE FAISCEAUX

Publication

**EP 1829172 A1 20070905 (FR)**

Application

**EP 05826432 A 20051219**

Priority

- EP 2005056893 W 20051219
- FR 0413838 A 20041223

Abstract (en)

[origin: WO2006067101A1] A laser source comprises: N incident laser beams, N being equal to at least two; N spatial monomode propagation media of a beam, each forming a propagation path (g<SUB>i</SUB>), of a laser beam; a coherent recombination system at the output of the N paths for furnishing an output recombined laser (f<SUB>R</SUB>), and; a phase control device (D) comprising N programmable closed loop servo phase changing elements (d<SUB>i</SUB>), one at the input of each path (g<SUB>i</SUB>). The source also comprises a polarization control device (P) having N programmable closed loop servo polarization controllers (p<SUB>i</SUB>), one per path, and each controller being placed between the associated phase changing element and the associated path.

IPC 8 full level

**H01S 3/23** (2006.01); **H01S 3/10** (2006.01)

CPC (source: EP US)

**H01S 3/06754** (2013.01 - EP US); **H01S 3/10023** (2013.01 - EP US); **H01S 3/2383** (2013.01 - EP US)

Citation (search report)

See references of WO 2006067101A1

Citation (examination)

- WO 2005091449 A1 20050929 - NORTHROP GRUMMAN CORP [US]
- US 6317257 B1 20011113 - UPTON ERIC LAWRENCE [US], et al
- EP 1730822 A1 20061213 - NORTHROP GRUMMAN CORP [US]

Designated contracting state (EPC)

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DOCDB simple family (application)

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