

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_i), of a laser beam; a coherent recombination system at the output of the N paths for furnishing an output recombined laser (f_R), and; a phase control device (D) comprising N programmable closed loop servo phase changing elements (d_i), one at the input of each path (g_i). The source also comprises a polarization control device (P) having N programmable closed loop servo polarization controllers (p_i), 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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WO 2006067101 A1 20060629; EP 1829172 A1 20070905; FR 2880204 A1 20060630; FR 2880204 B1 20070209; US 2008055700 A1 20080306

DOCDB simple family (application)

EP 2005056893 W 20051219; EP 05826432 A 20051219; FR 0413838 A 20041223; US 72267605 A 20051219