

Title (en)

INDUSTRIAL DIRECTLY DIODE-PUMPED ULTRAFast AMPLIFIER SYSTEM

Title (de)

INDUSTRIELLES DIREKT DIODENGEPUMPTES ULTRASCHNELLES VERSTÄRKERSYSTEM

Title (fr)

SYSTEME AMPLIFICATEUR ULTRARAPIDE INDUSTRIEL POMPE DIRECTEMENT PAR DIODE

Publication

**EP 1711987 A2 20061018 (EN)**

Application

**EP 05705148 A 20050107**

Priority

- US 2005000369 W 20050107
- US 53508004 P 20040107
- US 76221604 A 20040120

Abstract (en)

[origin: WO2005069452A2] A directly diode-pumped amplifier system is disclosed which produces sub-picosecond pulses with an output power of 2 watts or more. Computer resources are coupled to the amplifier system and are configured to provide control of operating parameters of the amplifier system. An optional second harmonic generator is supplied to increase the contrast ratio and reduce the minimum focal spot size. This amplifier system can be utilized for material processing applications.

IPC 8 full level

**H01S 3/16** (2006.01); **H01S 3/10** (2006.01); **H01S 3/23** (2006.01); **H01S 3/00** (2006.01); **H01S 3/042** (2006.01); **H01S 3/0941** (2006.01); **H01S 3/115** (2006.01)

CPC (source: EP US)

**H01S 3/10069** (2013.01 - EP); **H01S 3/115** (2013.01 - EP US); **H01S 3/005** (2013.01 - EP); **H01S 3/0057** (2013.01 - EP); **H01S 3/0092** (2013.01 - EP); **H01S 3/09415** (2013.01 - EP); **H01S 3/1618** (2013.01 - EP)

Citation (search report)

See references of WO 2005069452A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 2005069452 A2 20050728**; **WO 2005069452 A3 20060112**; EP 1711987 A2 20061018

DOCDB simple family (application)

**US 2005000369 W 20050107**; EP 05705148 A 20050107