

Title (en)

APPARATUS FOR DYNAMIC CONTROL OF LASER BEAM PROFILE

Title (de)

VORRICHTUNG ZUR DYNAMISCHEN STEUERUNG VON LASERSTRAHLPROFILIEN

Title (fr)

DISPOSITIF DE COMMANDE DYNAMIQUE DE PROFIL DE FAISCEAU LASER

Publication

**EP 1945400 A1 20080723 (EN)**

Application

**EP 05819011 A 20051110**

Priority

US 2005040750 W 20051110

Abstract (en)

[origin: WO2007055691A1] A laser system that can be used to perform manufacturing process such as welding, cutting, drilling and marking a work piece. The laser system includes an array of laser diodes (12) that each generate a laser beam. The laser beams (16) may collectively create a beam that is directed onto the work piece (20). The system also includes a control circuit (28) that can select and control the laser diodes to vary a characteristic(s) and/or profile of the beam. The control circuit may control the laser diodes so that an outer area of the beam has a higher intensity than an inner area of the beam.

IPC 8 full level

**B23K 26/00** (2006.01); **B23K 26/20** (2006.01); **B23K 26/38** (2006.01)

CPC (source: EP)

**B23K 26/0006** (2013.01); **B23K 26/0604** (2013.01); **B23K 26/0613** (2013.01); **B23K 26/0676** (2013.01); **B23K 26/0732** (2013.01); **B23K 26/244** (2015.10); **B23K 26/352** (2015.10); **B23K 26/364** (2015.10); **B23K 26/38** (2013.01); **B23K 2101/34** (2018.07); **B23K 2103/04** (2018.07); **B23K 2103/05** (2018.07); **B23K 2103/50** (2018.07); **H01S 5/06209** (2013.01); **H01S 5/4025** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2007055691 A1 20070518**; EP 1945400 A1 20080723; EP 1945400 A4 20090701

DOCDB simple family (application)

**US 2005040750 W 20051110**; EP 05819011 A 20051110