

Title (en)
LASER APPLICATOR

Title (de)
LASERAPPLIKATOR

Title (fr)
APPLIQUEUR LASER

Publication
EP 2353039 A1 20110810 (DE)

Application
EP 09759734 A 20091125

Priority
• EP 2009065822 W 20091125
• DE 102008058894 A 20081126

Abstract (en)
[origin: WO2010060924A1] The laser applicator comprises an optical fiber with a core surrounded by a jacket. The jacket contains openings (40) for coupling radiative energy outward. To accomplish an even distribution of energy, the size of the opening must increase from the proximal end to the distal end. According to the invention, the openings (40) are combined into groups (45), wherein the number of openings within a group varies. The openings (40) are of a uniform size so that the area of out-coupling (13) can be produced in a simple manner.

IPC 8 full level
G02B 6/00 (2006.01); **A61B 18/22** (2006.01); **A61B 18/24** (2006.01); **A61N 5/06** (2006.01); **F21V 8/00** (2006.01); **G02B 6/24** (2006.01); **G02B 23/24** (2006.01)

CPC (source: EP US)
A61B 18/24 (2013.01 - EP US); **G02B 6/001** (2013.01 - EP US); **A61B 2018/2272** (2013.01 - EP US)

Citation (search report)
See references of WO 2010060924A1

Citation (examination)
• US 2004179776 A1 20040916 - JENSON CHRIS H [US], et al
• JP 2008194084 A 20080828 - FUJIKURA LTD [JP], et al & EP 2110158 A1 20091021 - FUJIKURA LTD [JP], et al

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2010060924 A1 20100603; BR PI0920934 A2 20151229; CA 2744657 A1 20100603; CA 2744657 C 20161011;
DE 102008058894 B3 20100617; EP 2353039 A1 20110810; JP 2012510084 A 20120426; JP 5758808 B2 20150805;
US 2011230941 A1 20110922; US 8672927 B2 20140318

DOCDB simple family (application)
EP 2009065822 W 20091125; BR PI0920934 A 20091125; CA 2744657 A 20091125; DE 102008058894 A 20081126; EP 09759734 A 20091125;
JP 2011537966 A 20091125; US 200913130889 A 20091125