

Title (en)
OPTICAL SYSTEM FOR OPHTHALMIC SURGICAL LASER

Title (de)
OPTISCHES SYSTEM FÜR EINEN AUGENCHIRURGIELASER

Title (fr)
SYSTÈME OPTIQUE POUR LASER DE CHIRURGIE OPHTALMIQUE

Publication
EP 2459135 A4 20121107 (EN)

Application
EP 10806836 A 20100721

Priority
• US 51197909 A 20090729
• US 2010042786 W 20100721

Abstract (en)
[origin: CA2769099A1] A laser system for ophthalmic surgery includes a laser engine to generate a pulsed laser beam, and an XY scanner, to receive the generated pulsed laser beam, and to output a scanning laser beam, the XY scanner including an X scanner, including two X scanning mirrors, and a Y scanner, including two Y scanning mirrors. The XY scanner can modify essentially independently an angle the outputted scanning laser beam makes with an optical axis, and a position at which the outputted scanning laser beam intersects a subsequent reference plane perpendicular to the optical axis.

IPC 8 full level
A61F 9/008 (2006.01); **A61N 5/067** (2006.01); **G02B 26/08** (2006.01); **G02B 27/00** (2006.01); **G02F 1/29** (2006.01)

CPC (source: EP KR)
A61F 9/008 (2013.01 - EP KR); **A61F 9/00825** (2013.01 - EP KR); **A61F 9/0084** (2013.01 - KR); **G02B 27/0031** (2013.01 - EP KR); **G02B 27/0068** (2013.01 - EP KR); **G02B 27/0075** (2013.01 - EP KR); **A61F 2009/00848** (2013.01 - EP KR); **A61F 2009/00859** (2013.01 - EP KR); **A61F 2009/0087** (2013.01 - EP KR); **A61F 2009/00872** (2013.01 - EP KR); **A61F 2009/00897** (2013.01 - EP KR)

Citation (search report)
• [A] US 2008319464 A1 20081225 - BISCHOFF MARK [DE], et al
• [A] AN L ET AL: "USE OF A SCANNER TO MODULATE SPATIAL INTERFEROGRAMS FOR IN VIVO FULL-RANGE FOURIER-DOMAIN OPTICAL COHERENCE TOMOGRAPHY", OPTICS LETTERS, OSA, OPTICAL SOCIETY OF AMERICA, WASHINGTON, DC, US, vol. 32, no. 23, 1 December 2007 (2007-12-01), pages 3423 - 3425, XP001509776, ISSN: 0146-9592, DOI: 10.1364/OL.32.003423
• See references of WO 2011017000A2

Citation (examination)
US 2006187462 A1 20060824 - SRINIVASAN VIVEK [US], et al

Designated contracting state (EPC)
AL 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)
AU 2010281494 A1 20120216; AU 2010281494 B2 20150122; CA 2769099 A1 20110210; CN 102596126 A 20120718; CN 102596126 B 20140813; EP 2459135 A2 20120606; EP 2459135 A4 20121107; JP 2013500131 A 20130107; JP 5540097 B2 20140702; KR 20120068819 A 20120627; MX 2012001330 A 20120815; RU 2012107317 A 20130910; RU 2544371 C2 20150320

DOCDB simple family (application)
AU 2010281494 A 20100721; CA 2769099 A 20100721; CN 201080043148 A 20100721; EP 10806836 A 20100721; JP 2012522900 A 20100721; KR 20127002653 A 20100721; MX 2012001330 A 20100721; RU 2012107317 A 20100721