Title (en)

Surgical microscopy system having an optical coherence tomography facility

Title (de)

Chirurgisches Mikroskopsystem mit optischer Kohärenz-Tomographieeinrichtung

Title (fr)

Système de microscopie chirurgicale disposant d'une installation de tomographie à cohérence optique

Publication

EP 2103249 B9 20161019 (EN)

Application

EP 09003905 A 20090318

Priority

US 7019708 P 20080319

Abstract (en)

[origin: EP2103249A1] A surgical microscopy system is provided wherein an optical coherence tomography facility is integrated into a microscopy system. A beam of measuring light formed by collimating optics of an OCT system is deflected by a beam scanner, traverses imaging optics, and is reflected by a reflector such that the beam of measuring light traverses an objective lens of microscopy optics and is directed to an object region of the microscopy optics. A position of the beam of measuring light being incident on the reflector is substantially independent on a direction into which the beam of measuring light is deflected.by the beam scanner. When traveling through the beam scanner, the beam of measuring light is comprised of a bundle of substantially parallel light rays.

IPC 8 full level

A61B 3/13 (2006.01); **A61B 90/20** (2016.01); A61B 3/107 (2006.01); A61B 5/00 (2006.01); A61F 9/008 (2006.01); G02B 21/00 (2006.01)

CPC (source: EP US)

A61B 3/102 (2013.01 - EP US); **A61B 3/13** (2013.01 - EP US); **A61B 90/20** (2016.02 - EP US); **G01N 21/4795** (2013.01 - EP US); **G02B 21/0012** (2013.01 - EP US); **G02B 21/082** (2013.01 - EP US); **G02B 21/22** (2013.01 - EP US)

Cited by

JP2014217470A; EP2965688A1; EP3509474A4; EP2345394A1; US11317798B2; US10881291B2; US8777413B2; US8356900B2; WO2013079214A1; WO2012170572A1; DE102012012281A1; WO2013189591A1; US9615740B2; US9179836B2; US9579019B2; DE102013002293A1; US9526410B2; US10827919B2

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DOCDB simple family (application)

EP 09003905 A 20090318; EP 15002689 A 20090318; EP 18211581 A 20090318; JP 2009068567 A 20090319; JP 2015109693 A 20150529; US 40667109 A 20090318