Title (en)

OPTICAL COHERENCE TOMOGRAPHY SYSTEM AND OPTICAL COHERENCE TOMOGRAPHY METHOD

Title (de)

OPTISCHES KOHÄRENZTOMOGRAPHIESYSTEM UND OPTISCHES KOHÄRENZTOMOGRAPHIEVERFAHREN

Title (fr)

SYSTÈME DE TOMOGRAPHIE À COHÉRENCE OPTIQUE ET PROCÉDÉ DE TOMOGRAPHIE À COHÉRENCE OPTIQUE

Publication

EP 2271913 A1 20110112 (DE)

Application

EP 08735188 A 20080411

Priority

EP 2008002898 W 20080411

Abstract (en)

[origin: WO2009124569A1] The invention relates to an optical coherence tomography system comprising an interferometer, in particular a Michelson-interferometer, provided with a reference arm (R) for modifying an optical reference wave length and a measuring arm (M), in which an object (sample P) that is to be scanned can be arranged and/or is arranged in a sample volume (PV). Said optical coherence tomography device is characterised in that a focusing system (F) designed for focusing divergent incident light beams on a common point (target point Z) in the sample volume is arranged in the measuring arm between the beam splitter of the interferometer and the sample volume.

IPC 8 full level

G01N 21/47 (2006.01); **A61B 5/00** (2006.01); **G01B 9/02** (2006.01)

CPC (source: EP US)

G01B 9/02044 (2013.01 - EP US); **G01B 9/02063** (2013.01 - EP US); **G01B 9/02091** (2013.01 - EP US)

Citation (search report)

See references of WO 2009124569A1

Citation (examination)

- US 2004006274 A1 20040108 - GILLER COLE [US], et al
- US 2003218755 A1 20031127 - WEI JAY [US], et al
- R.UMA MAHESWARI ET AL: "Novel functional imaging technique from brain surface with optical coherence tomography enabling visualization of depth resolved functional structure in vivo", JOURNAL OF NEUROSCIENCE METHODS., vol. 124, no. 1, 1 March 2003 (2003-03-01), NL, pages 83 - 92, XP055337801, ISSN: 0165-0270, DOI: 10.1016/S0165-0270(02)00370-9

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2009124569 A1 20091015; EP 2271913 A1 20110112; US 2011306875 A1 20111215; US 2014139845 A1 20140522

DOCDB simple family (application)

EP 2008002898 W 20080411; EP 08735188 A 20080411; US 201414165158 A 20140127; US 93732808 A 20080411