

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

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

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DOCDB simple family (application)

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