

Title (en)
METHOD AND SYSTEM FOR HETERODYNED FLUORESCENCE TOMOGRAPHY

Title (de)
VERFAHREN UND SYSTEM FÜR ÜBERLAGERTE FLUORESCENZTOMOGRAFIE

Title (fr)
PROCÉDÉ ET SYSTÈME DE TOMOGRAPHIE DE FLUORESCENCE HÉTÉRODYNÉE

Publication
EP 3186885 A4 20180502 (EN)

Application
EP 14900413 A 20140826

Priority
US 2014052589 W 20140826

Abstract (en)
[origin: WO2016032432A1] A solid state detection system includes a degenerate photo-parametric amplifier (PPA), wherein the PPA comprises a photo diode, and a periodically pulsed light source, wherein the photo-parametric amplifier (PPA) is synchronized to the pulsed light source with a phase locked loop that generates a pump waveform for the PPA at twice the frequency of the excitation pulse rate.

IPC 8 full level
H03F 7/00 (2006.01)

CPC (source: EP)
G01N 21/45 (2013.01); **G01N 21/6456** (2013.01); **H03F 3/08** (2013.01)

Citation (search report)

- [YA] US 2013260479 A1 20131003 - CHOU CHIEN [TW], et al
- [A] JP 2014052476 A 20140320 - ASTRO DESIGN INC
- [A] CN 102914525 A 20130206 - UNIV GUANGDONG TECHNOLOGY
- [Y] BI'ER SHI ET AL: "360 DEG Fourier Transform Profilometry in Surface Reconstruction for Fluorescence Molecular Tomography", IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS, IEEE, PISCATAWAY, NJ, USA, vol. 17, no. 3, 1 May 2013 (2013-05-01), pages 681 - 689, XP011506353, ISSN: 2168-2194, DOI: 10.1109/JBHI.2012.2235076
- [A] KJELL CARLSSON ET AL: "Confocal fluorescence microscopy using intensity-modulated multiple-wavelength scanning (IMS): evaluation of results from spectral and lifetime imaging", PROCEEDINGS OPTICAL DIAGNOSTICS OF LIVING CELLS II, vol. 3261, 9 June 1998 (1998-06-09), US, XP055379693, ISSN: 0277-786X, ISBN: 978-1-5106-1324-9, DOI: 10.1117/12.310534
- See references of WO 2016032432A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2016032432 A1 20160303; EP 3186885 A1 20170705; EP 3186885 A4 20180502

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