

Title (en)
FLUORESCENCE MEASUREMENT AND OPTICAL IMAGING METHOD AND APPARATUS

Title (de)
FLUORESZENZMESSUNG SOWIE OPTISCHES BILDGEBUNGSVERFAHREN UND VORRICHTUNG

Title (fr)
PROCÉDÉ ET APPAREIL DE MESURE DE FLUORESCENCE ET D'IMAGERIE OPTIQUE

Publication
EP 2021777 A2 20090211 (EN)

Application
EP 07761766 A 20070502

Priority

- US 2007068061 W 20070502
- US 38140206 A 20060503
- US 38144306 A 20060503
- US 38145006 A 20060503

Abstract (en)
[origin: WO2007131055A2] A system and method for measuring fluorescence lifetimes utilizing a light source modulated with a code sequence to interrogate a sample of interest. The system is useful for studying the interaction of chemicals, biomolecules, and other substances. The fluorescence lifetime is used as an indicator of chemical binding and chemical environment. A system and method for measuring photons. The system produces an estimate of the distribution of flight times for photons traveling from the source to the detector. A system and method for optical lymph node mapping. A correlation of a photo-detector signal and a digital code sequence, used to modulated light signal, is calculated to produce an estimate of the distribution of flight times for photons traveling from a given source to a given detector. These distributions are used along with the measured amplitudes to reconstruct a map of contrast agent location within the tissue.

IPC 8 full level
G01N 21/76 (2006.01)

CPC (source: EP)
A61B 5/0071 (2013.01); **A61B 5/0084** (2013.01); **A61B 5/415** (2013.01); **A61B 5/418** (2013.01); **A61B 5/6848** (2013.01); **G01J 3/02** (2013.01); **G01J 3/0205** (2013.01); **G01J 3/0218** (2013.01); **G01J 3/10** (2013.01); **G01J 3/2823** (2013.01); **G01J 3/4406** (2013.01); **G01N 21/6408** (2013.01); **G01N 2201/0826** (2013.01); **G01N 2201/0833** (2013.01)

Citation (search report)
See references of WO 2007131055A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2007131055 A2 20071115; WO 2007131055 A3 20081204; EP 2021777 A2 20090211

DOCDB simple family (application)
US 2007068061 W 20070502; EP 07761766 A 20070502