

Title (en)  
SPECTRAL UNMIXING FOR IN-VIVO IMAGING

Title (de)  
SPEKTRUMSENTMISCHUNG FÜR IN-VIVO-ABBILDUNGEN

Title (fr)  
SÉPARATION SPECTRALE POUR L'IMAGERIE IN VIVO

Publication  
**EP 2068714 A2 20090617 (EN)**

Application  
**EP 07841365 A 20070824**

Priority  
• US 2007076813 W 20070824  
• US 84024706 P 20060824

Abstract (en)  
[origin: WO2008024986A2] Disclosed are apparatus and methods for determining accurate optical property values of turbid media. In one embodiment, the method includes (a) providing a light source, having a first wavelength and a known illumination power, sequentially at a plurality of specific illumination positions on a first surface of the specimen; (b) for each specific position of the light source, obtaining light emission measurements from a second surface of the specimen that is opposite the first surface, wherein the light emission measurements are obtained for a plurality of surface positions of the second surface; and (c) for each specific illumination position of the light source at the first surface of the specimen, determining one or more optical properties for the specimen based on the specific illumination position of the light source, the first wavelength of the light source, the known illumination power of the light source, and the obtained light emission measurements for such each specific illumination position. The optical properties for the plurality of specific illumination positions of the light source are individually determined for each specific illumination position of the light source.

IPC 8 full level  
**A61B 6/00** (2006.01)

CPC (source: EP)  
**A61B 5/0071** (2013.01); **A61B 5/0073** (2013.01); **G01N 21/6456** (2013.01); **A61B 5/0064** (2013.01); **A61B 5/0084** (2013.01); **A61B 2503/40** (2013.01); **G01N 21/4795** (2013.01)

Citation (search report)  
See references of WO 2008025006A2

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 2008024986 A2 20080228**; **WO 2008024986 A3 20080410**; EP 2068714 A2 20090617; WO 2008025006 A2 20080228; WO 2008025006 A3 20081023

DOCDB simple family (application)  
**US 2007076781 W 20070824**; EP 07841365 A 20070824; US 2007076813 W 20070824