

Title (en)  
NON-INVASIVE SCANNING APPARATUSES

Title (de)  
NICHTINVASIVE SCAN-VORRICHTUNGEN

Title (fr)  
APPAREILS DE BALAYAGE NON INVASIFS

Publication  
**EP 2352419 A1 20110810 (EN)**

Application  
**EP 09828179 A 20091118**

Priority

- US 2009065015 W 20091118
- US 11576708 P 20081118
- US 11641708 P 20081120
- US 11695908 P 20081121
- US 11705608 P 20081121

Abstract (en)  
[origin: WO2010059744A1] Systems and methods for non-invasively scanning and analyzing one or more characteristics of a sample utilizing electromagnetic radiation are described. More particularly, the systems and methods utilize an electromagnetic radiation source connected to a transmitter and an analyzer connected to a receiver. A sample to be analyzed is placed between the transmitter and receiver in a variety of different manners and a frequency sweep of electromagnetic radiation is transmitted through the sample to create a series of spectral data sets that are used to create one or more composite spectrograms, which are then analyzed to determine one or more characteristics of the sample. A magnetic field can alternatively be applied around the transmitter, receiver and sample to enhance some characteristic analysis applications. Samples include inert and living items, and the characteristics include a wide variety of different applications.

IPC 8 full level  
**A61B 5/00** (2006.01)

CPC (source: EP US)  
**A61B 5/05** (2013.01 - EP); **A61B 5/0507** (2013.01 - EP); **A61B 5/117** (2013.01 - EP US); **A61B 5/14532** (2013.01 - EP); **A61B 5/14546** (2013.01 - EP); **A61B 5/6826** (2013.01 - EP); **A61B 5/6838** (2013.01 - EP); **A61B 5/0002** (2013.01 - EP); **A61B 5/411** (2013.01 - EP)

Citation (search report)  
See references of WO 2010059744A1

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010059744 A1 20100527**; EP 2352419 A1 20110810

DOCDB simple family (application)  
**US 2009065015 W 20091118**; EP 09828179 A 20091118