

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

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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.

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