

Title (en)

METHOD FOR ANALYZING BIOLOGICAL SPECIMENS BY SPECTRAL IMAGING

Title (de)

VERFAHREN ZUR ANALYSE BIOLOGISCHER PROBEN DURCH SPEKTRALBILDGEBUNG

Title (fr)

PROCÉDÉ POUR L'ANALYSE D'ÉCHANTILLONS BIOLOGIQUES PAR IMAGERIE SPECTRALE

Publication

EP 2585811 A4 20171220 (EN)

Application

EP 11799012 A 20110624

Priority

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Abstract (en)

[origin: WO2011163624A1] A method for analyzing biological specimens by spectral imaging to provide a medical diagnosis includes obtaining spectral and visual images of biological specimens and registering the images to detect cell abnormalities, pre-cancerous cells, and cancerous cells. This method eliminates the bias and unreliability of diagnoses that is inherent in standard histopathological and other spectral methods. In addition, a method for correcting confounding spectral contributions that are frequently observed in microscopically acquired infrared spectra of cells and tissue includes performing a phase correction on the spectral data. This phase correction method may be used to correct various types of absorption spectra that are contaminated by reflective components.

IPC 8 full level

G01N 21/35 (2014.01); **A61B 5/00** (2006.01); **G01N 21/3581** (2014.01); **G01N 21/552** (2014.01); **G01N 21/64** (2006.01); **G01N 21/65** (2006.01); **G06K 9/00** (2006.01); **G06T 7/33** (2017.01)

CPC (source: EP KR)

A61B 5/0071 (2013.01 - EP); **A61B 5/0075** (2013.01 - EP); **A61B 5/415** (2013.01 - EP); **A61B 5/418** (2013.01 - EP); **G01N 21/35** (2013.01 - KR); **G01N 21/552** (2013.01 - EP); **G01N 21/6456** (2013.01 - EP); **G01N 21/65** (2013.01 - EP KR); **G01N 33/483** (2013.01 - KR); **G06T 7/33** (2016.12 - EP); **G06V 20/69** (2022.01 - EP); **A61B 5/7257** (2013.01 - EP); **G01N 21/35** (2013.01 - EP); **G01N 21/3581** (2013.01 - EP); **G01N 2021/3595** (2013.01 - EP); **G01N 2021/6417** (2013.01 - EP); **G01N 2021/653** (2013.01 - EP); **G01N 2201/1293** (2013.01 - EP); **G01N 2201/1296** (2013.01 - EP); **G06T 2207/10024** (2013.01 - EP); **G06T 2207/10048** (2013.01 - EP); **G06T 2207/30024** (2013.01 - EP)

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