

Title (en)
METHOD AND DEVICE FOR DETECTING TUMOROUS LIVING CELL TISSUE

Title (de)
VERFAHREN UND VORRICHTUNG ZUR ERKENNUNG VON TUMORBEHAFTETEM LEBENDEM ZELLGEWEBE

Title (fr)
PROCÉDÉ ET DISPOSITIF DE DÉTECTION DE TISSUS CELLULAIRES VIVANTS ATTEINTS D'UNE TUMEUR

Publication
EP 2430427 A1 20120321 (DE)

Application
EP 10730694 A 20100512

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- EP 10730694 A 20100512

Abstract (en)
[origin: WO2010130254A1] The invention relates to a method and a device for detecting tumorous living cell tissue. It also relates to a method and a device for detecting tumorous cell tissue in collected samples of living cell tissue. In the method, a radiation source is used to emit electromagnetic radiation in a locally defined manner onto cell tissue and, after the radiation source has been switched off, the decay behaviour of the inherent fluorescence intensity excited in the cell tissue by the electromagnetic radiation is detected on the cell tissue by a detector, with temporal and spectral resolution and with a known scanning rate or known scanning rates for at least one wavelength. With the measured intensity values that are obtained, the difference autocorrelation function $C(t)$ of the intensity decay behaviour is determined, from which the fractal dimension DF for the respective irradiated cell tissue is calculated, and the value of the fractal dimension DF is used for a classification in respect of a tumorous invasion of the respective irradiated cell tissue.

IPC 8 full level
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CPC (source: EP KR US)
A61B 5/0059 (2013.01 - EP KR US); **A61B 5/0071** (2013.01 - KR); **G01N 21/6408** (2013.01 - EP KR US); **G01N 21/6486** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2010130254A1

Citation (examination)

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