

Title (en)  
DEVICE AND METHOD FOR MEASURING TISSUE TEMPERATURE

Title (de)  
VORRICHTUNG UND VERFAHREN ZUM MESSEN VON GEWEBETEMPERATUR

Title (fr)  
DISPOSITIF ET PROCÉDÉ POUR MESURER LA TEMPÉRATURE DE TISSUS

Publication  
**EP 4009894 A1 20220615 (DE)**

Application  
**EP 20753713 A 20200805**

Priority

- DE 102019121366 A 20190807
- EP 2020072027 W 20200805

Abstract (en)  
[origin: WO2021023780A1] A device and a method for measuring temperature, the method comprising the steps: At least one illumination device emits light with an illumination spectrum into tissue, at least one detector receives the diffuse reflection of the light with a remission spectrum, from the tissue, the detector converts the remission spectrum into a detector signal, the detector signal is sent to a computing unit, the computing unit calculates a remission spectrum from the detector signal, the computing unit calculates an absorption spectrum of the tissue by comparing the illumination spectrum with the remission spectrum, the computing unit calculates at least one absorption maximum from the absorption spectrum, and the computing unit calculates a temperature in the tissue by comparing the absorption maximum with at least one reference.

IPC 8 full level  
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CPC (source: CN EP KR US)  
**A61B 5/0075** (2013.01 - EP KR US); **A61B 5/0084** (2013.01 - EP KR US); **A61B 5/01** (2013.01 - EP KR US);  
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**A61B 2018/00642** (2013.01 - EP KR); **A61B 2018/00702** (2013.01 - EP KR); **A61B 2018/00708** (2013.01 - CN);  
**A61B 2018/0072** (2013.01 - EP KR); **A61B 2018/00732** (2013.01 - EP KR); **A61B 2018/00767** (2013.01 - EP KR);  
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Citation (search report)  
See references of WO 2021023780A1

Designated contracting state (EPC)  
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

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**EP 2020072027 W 20200805**; BR 112022002256 A 20200805; CN 202080056162 A 20200805; DE 102019121366 A 20190807;  
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