

Title (en)

MEASURING DEVICE FOR GATHERING SIGNALS MEASURED IN VITAL TISSUE

Title (de)

MESSEINRICHTUNG ZUR ERHEBUNG VON MESSSIGNALEN AUS VITALEM GEWEBE

Title (fr)

DISPOSITIF DE MESURE POUR RÉCUPÉRER DES SIGNAUX DE MESURE À PARTIR DE TISSUS VITAUX

Publication

EP 2556367 A1 20130213 (DE)

Application

EP 11725610 A 20110411

Priority

- DE 102010014592 A 20100409
- EP 2011001790 W 20110411

Abstract (en)

[origin: WO2011124397A1] The invention relates to a measuring device comprising a light source device (Q1, Q2), a spectrometer device (1) and a measuring head structure (2), the measuring head structure being coupled with the light source device via a first optical waveguide (L1) and a second optical waveguide (L2) as well as with the spectrometer device via a third optical waveguide (L3), said optical waveguides leading to a contact surface provided by the measuring head structure. The outlet positions of the optical waveguides are adapted to each other such that the distances (a,b) of the outlet positions of the first and second optical waveguides are different from the outlet position of the third optical waveguide. In this manner, a measuring device is devised which is characterized in that it is highly insensitive to disturbing influences which due to the uneven scattering of the cell structures occur in vital tissue systems.

IPC 8 full level

G01N 21/47 (2006.01); **A61B 5/00** (2006.01); **A61B 5/1455** (2006.01)

CPC (source: EP US)

A61B 5/1455 (2013.01 - EP US); **G01N 21/474** (2013.01 - EP US); **G01N 2021/4742** (2013.01 - EP US)

Citation (search report)

See references of WO 2011124397A1

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

DOCDB simple family (publication)

DE 102010014592 A1 20111013; CN 103109177 A 20130515; EP 2556367 A1 20130213; JP 2013540256 A 20131031;
US 2013144138 A1 20130606; WO 2011124397 A1 20111013

DOCDB simple family (application)

DE 102010014592 A 20100409; CN 201180028446 A 20110411; EP 11725610 A 20110411; EP 2011001790 W 20110411;
JP 2013503043 A 20110411; US 201113639390 A 20110411