

Title (en)

BLOOD OXYGENATION MEASUREMENT AND DISPLAY IN MR-GUIDED CATHETERIZATIONS

Title (de)

BLUTOXYGENIERUNGSMESSUNG UND ANZEIGE IN MR-GEFÜHRTEN KATHETERISIERUNGEN

Title (fr)

MESURE ET AFFICHAGE DE L'OXYGÉNATION DU SANG DANS DES CATHÉTÉRISATIONS GUIDÉES PAR RM

Publication

**EP 3706628 A1 20200916 (EN)**

Application

**EP 18795564 A 20181030**

Priority

- EP 17200747 A 20171109
- EP 2018079607 W 20181030

Abstract (en)

[origin: EP3482684A1] The present disclosure relates to a medical apparatus (126) comprising a display (132), a processor (130), and a memory (136) storing machine executable instructions (160-168). Execution of the instructions (160-168) causes the processor (130) to control the medical apparatus (126) to obtain a graphical representation (144) of magnetic resonance data (142) of an anatomical structure of interest (109). The graphical representation (144) is displayed on the display (132). Furthermore, a local blood oxygenation signal from a catheter (107) is received as well as a position tracking signal of the catheter (107) tracking positions (148) of the measurements of local blood oxygen saturation levels. Using the measured local blood oxygen saturation levels and the tracked positions (148) of the measurements, a spatial distribution (146, 402-408, 512-518, 612-618) of local blood oxygen saturation levels is displayed within the graphical representation (144).

IPC 8 full level

**A61B 5/055** (2006.01); **A61B 5/06** (2006.01); **A61B 5/1455** (2006.01); **A61B 34/20** (2016.01)

CPC (source: EP)

**A61B 5/055** (2013.01); **A61B 5/066** (2013.01); **A61B 5/14551** (2013.01); **A61B 5/6852** (2013.01); **A61B 5/743** (2013.01); **A61B 34/20** (2016.02); **A61B 5/746** (2013.01); **A61B 2034/2051** (2016.02); **A61B 2090/309** (2016.02)

Citation (search report)

See references of WO 2019091816A1

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

DOCDB simple family (publication)

**EP 3482684 A1 20190515**; EP 3706628 A1 20200916; WO 2019091816 A1 20190516

DOCDB simple family (application)

**EP 17200747 A 20171109**; EP 18795564 A 20181030; EP 2018079607 W 20181030