

Title (en)
MONTAGE DESIGN FOR CLOSED LOOP SENSING AND NEUROSTIMULATION OF THE DORSAL LATERAL PREFRONTAL CORTEX AND/OR MOTOR CORTEX

Title (de)
MONTAGEENTWURF ZUR ERFASSUNG MIT GESCHLOSSENEM REGELKREIS UND NEUROSTIMULATION DER DORSALEN SEITLICHEN PRÄFRONTALEN CORTEX UND/ODER MOTORISCHEN CORTEX

Title (fr)
CONCEPTION DE MONTAGE POUR LA DÉTECTION À BOUCLE FERMÉE ET LA NEUROSTIMULATION DU CORTEX PRÉFRONTAL LATÉRAL DORSAL ET/OU CORTEX MOTEUR

Publication
EP 3294411 A4 20190123 (EN)

Application
EP 16793277 A 20160506

Priority
• US 201562159151 P 20150508
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• US 2016031321 W 20160506

Abstract (en)
[origin: CN107454832A] Described is a system for automatic adjustment of neurostimulation. The system controls stimulation of specific neural regions through a neural device positioned on a human subject, while simultaneously performing recordings from the neural device using a targeted arrangement of stimulating electrodes and distinct types of recording electrodes of the neural device. Stimulation of the specific neural regions is adjusted in real-time based on the recordings from the neural device.

IPC 8 full level
A61N 1/36 (2006.01); **A61B 5/00** (2006.01); **A61B 5/375** (2021.01); **A61N 1/08** (2006.01); **G09B 9/08** (2006.01)

CPC (source: CN EP US)
A61B 5/0075 (2013.01 - EP); **A61B 5/165** (2013.01 - CN); **A61B 5/291** (2021.01 - CN EP US); **A61B 5/375** (2021.01 - CN EP); **A61B 5/377** (2021.01 - CN); **A61B 5/4836** (2013.01 - CN EP); **A61N 1/08** (2013.01 - CN EP); **A61N 1/36** (2013.01 - CN EP); **A61N 1/36025** (2013.01 - CN EP); **A61B 5/6803** (2013.01 - EP)

Citation (search report)
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• [X] WO 2014130960 A1 20140828 - THYNC INC [US]
• [X] US 2014288614 A1 20140925 - HAGEDORN DAVID W [US], et al
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• [I] WO 2013173875 A1 20131128 - UNIV MONASH [AU]
• [X] JINDAL UTKARSH ET AL: "Development of Point of Care Testing Device for Neurovascular Coupling From Simultaneous Recording of EEG and NIRS During Anodal Transcranial Direct Current Stimulation", IEEE JOURNAL OF TRANSLATIONAL ENGINEERING IN HEALTH AND MEDICINE, vol. 3, 16 January 2015 (2015-01-16), pages 1 - 12, XP011572490, DOI: 10.1109/JTEHM.2015.2389230
• See also references of WO 2016182947A1

Designated contracting state (EPC)
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