

Title (en)
METHOD AND APPARATUS TO DETERMINE OPTIMAL BRAIN STIMULATION TO INDUCE DESIRED BEHAVIOR

Title (de)
VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG DER OPTIMALEN GEHIRNSTIMULATION ZUR INDUKTION VON GEWÜNSCHTEM VERHALTEN

Title (fr)
PROCÉDÉ ET APPAREIL DE DÉTERMINATION D'UNE STIMULATION CÉRÉBRALE OPTIMALE POUR INDUIRE UN COMPORTEMENT SOUHAITÉ

Publication
EP 3618707 A4 20201223 (EN)

Application
EP 18794087 A 20180423

Priority

- US 201762500500 P 20170503
- US 2018028962 W 20180423

Abstract (en)
[origin: WO2018204119A1] Described is a system for inducing a desired behavioral effect using an electrical current stimulation. A brain monitoring subsystem includes monitoring electrodes for sensing brain activity, and a brain stimulation subsystem includes stimulating electrodes for applying an electrical current stimulation. Multi-scale distributed data is registered into a graphical representation. The system identifies a sub-graph in the graphical representation and maps the sub-graph onto concept features, generating a concept lattice which relates the concept features to a behavioral effect. Finally, an electrical current stimulation to be applied to produce the behavioral effect is determined.

IPC 8 full level
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CPC (source: EP)
A61B 5/165 (2013.01); **A61B 5/24** (2021.01); **A61B 5/291** (2021.01); **A61B 5/375** (2021.01); **A61B 5/4836** (2013.01); **A61B 5/7267** (2013.01); **A61B 5/7278** (2013.01)

Citation (search report)

- [X] US 2016038049 A1 20160211 - GEVA AMIR B [IL], et al
- [XA] WO 2016200952 A1 20161215 - CHILDREN'S MEDICAL CENTER CORP [US]
- See also references of WO 2018204119A1

Designated contracting state (EPC)
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US 2018028962 W 20180423; CN 201880016157 A 20180423; EP 18794087 A 20180423