

Title (en)

METHOD AND APPARATUS FOR CLASSIFICATION OF SEIZURE TYPE AND SEVERITY USING ELECTROMYOGRAPHY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR KLASSIFIZIERUNG DES TYPUS UND SCHWEREGRADDES VON ANFÄLLEN MITTELS ELEKTROMYOGRAFIE

Title (fr)

PROCÉDÉ ET APPAREIL DE CLASSIFICATION DU TYPE ET DE LA GRAVITÉ D'UNE CRISE D'ÉPILEPSIE À L'AIDE DE L'ÉLECTROMYOGRAPHIE

Publication

**EP 3076867 A4 20171004 (EN)**

Application

**EP 14868097 A 20141202**

Priority

- US 201361910827 P 20131202
- US 201461969660 P 20140324
- US 201461979225 P 20140414
- US 201462001302 P 20140521
- US 201462032147 P 20140801
- US 201462050054 P 20140912
- US 2014068246 W 20141202

Abstract (en)

[origin: WO2015084899A1] A method and apparatus for monitoring a patient for seizure activity including collecting and processing EMG signal data and categorizing tire detected data to execute risk stratification. A transmission protocol that is tailored for detected events may be selected and executed.

IPC 8 full level

**A61B 5/00** (2006.01); **A61B 5/02** (2006.01); **A61B 5/0488** (2006.01); **G06F 3/0484** (2013.01); **G06F 19/00** (2011.01); **A61B 5/145** (2006.01)

CPC (source: EP US)

**A61B 5/0002** (2013.01 - EP); **A61B 5/389** (2021.01 - EP US); **A61B 5/4094** (2013.01 - EP); **A61B 5/7282** (2013.01 - EP); **G16H 40/67** (2017.12 - EP US); **G16H 50/30** (2017.12 - EP); **A61B 5/14542** (2013.01 - EP); **A61B 5/7264** (2013.01 - EP); **A61B 2505/07** (2013.01 - EP); **A61B 2560/0242** (2013.01 - EP); **A61B 2562/0219** (2013.01 - EP); **G16H 50/20** (2017.12 - EP US)

Citation (search report)

- [XYI] US 2013012830 A1 20130110 - LEININGER JAMES R [US], et al
- [Y] M R JAMES ET AL: "Pulse oximetry during apparent tonic-clonic seizures", THE LANCET, vol. 337, 16 February 1991 (1991-02-16), pages 394 - 395, XP055396741
- [A] CHE-CHANG YANG AND YEH-LIANG HSU: "A review of accelerometry-based wearable motion detectors for physical activity monitoring", MEDLINE., vol. 10, no. 8, 20 August 2010 (2010-08-20), pages 7772 - 7788, XP002694955, DOI: 10.3390/S100807772
- [A] SÁNDOR BENICZKY ET AL: "Detection of generalized tonic-clonic seizures by a wireless wrist accelerometer: A prospective, multicenter study", EPILEPSIA, vol. 54, no. 4, 8 February 2013 (2013-02-08), NEW YORK, US, pages e58 - e61, XP055396739, ISSN: 0013-9580, DOI: 10.1111/epi.12120
- See references of WO 2015084899A1

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)

**WO 2015084899 A1 20150611**; AU 2014360720 A1 20160630; AU 2017245430 A1 20171102; AU 2017245430 B2 20190117; BR 112016012107 A2 20170808; CA 2931982 A1 20150611; EP 3076867 A1 20161012; EP 3076867 A4 20171004; JP 2016538931 A 20161215; JP 6538055 B2 20190703; MX 2016007210 A 20160908; MX 358014 B 20180802

DOCDB simple family (application)

**US 2014068246 W 20141202**; AU 2014360720 A 20141202; AU 2017245430 A 20171013; BR 112016012107 A 20141202; CA 2931982 A 20141202; EP 14868097 A 20141202; JP 2016535703 A 20141202; MX 2016007210 A 20141202