

Title (en)

DATA-PROCESSING METHOD ENABLING THE FILTERING OF ARTEFACTS, IN PARTICULAR FOR ELECTROENCEPHALOGRAPHY

Title (de)

DATENVERARBEITUNGSVERFAHREN MIT FILTERUNG VON ARTEFAKTEN, IM BESONDEREN FÜR DIE ELEKTROENZEPHALOGRAFIE

Title (fr)

PROCEDE DE TRAITEMENT DE DONNEES PERMETTANT LE FILTRAGE D'ARTEFACTS, ADAPTE NOTAMMENT A L'ELECTROENCEPHALOGRAPHIE

Publication

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Application

EP 09736609 A 20090707

Priority

FR 2009051340 W 20090707

Abstract (en)

[origin: WO2011004078A1] The present invention relates to a method for processing at least one multichannel signal (X) broken down, over a plurality of time-frequency windows (Pi j), into a plurality of multichannel signals (Xpji), said multichannel signal (X) resulting from a linear combination of at least one main signal (sp) obtained by measuring data from a main data source (S) and at least one secondary signal (ss) obtained by measuring data from a secondary data source (B) corresponding to at least one artefact, said method comprising at least one learning step (SO) including a comparative multi-component analysis (AMC) mainly comprising the comparison of an index of said signal (X), preferably representing the power thereof, over two separate time-frequency windows (Pi 1 and Pi 2), so as to separate the components (w) of the main signal (sp) from the components of at least one portion of the secondary signal (ss).

IPC 8 full level

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CPC (source: EP US)

A61B 5/316 (2021.01 - EP); **A61B 5/372** (2021.01 - US); **A61B 5/4094** (2013.01 - EP)

Citation (search report)

See references of WO 2011004078A1

Citation (examination)

"Extraction of Fetal Cardiac Signals from an Array of Maternal Abdominal Recordings", 1 July 2008, INSTITUT POLYTECHNIQUE DE GRENOBLE, FRANCE, Grenoble, article REZA SAMENI: "Extraction of Fetal Cardiac Signals from an Array of Maternal Abdominal Recordings", pages: 1 - 149, XP055050923

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