Title (en)

AN OFF-LINE SENSING METHOD AND ITS APPLICATIONS IN DETECTING UNDERSENSING, OVERSENSING, AND NOISE

Title (de)

OFFLINE-MESSVERFAHREN UND SEINE VERWENDUNG BEI DER ERKENNUNG VON UNDERSENSING, OVERSENSING UND RAUSCHEN

Title (fr)

PROCÉDÉ DE DÉTECTION HORS LIGNE ET SES APPLICATIONS DANS LA DÉTECTION DE SOUS-DÉTECTION, DE SURDÉTECTION ET DE BRUIT

Publication

EP 2714189 A1 20140409 (EN)

Application

EP 12731213 A 20120531

Priority

- US 201161491451 P 20110531
- US 201161491453 P 20110531
- US 201213483387 A 20120530
- US 201213483394 A 20120530
- US 2012040186 W 20120531

Abstract (en)

[origin: WO2012166901A1] A system and method for performing independent, off-line evaluation of event sensing for collected electrograms, comprising: sensing an electrogram using an implantable medical device (IMD); determining locations of heart beats on at least one channel of the electrogram using a multi-pass process, resulting in a group of multi-pass beat locations; storing the electrogram and device-identified beat locations in a memory location; and retrieving the electrogram and device-identified beat locations from the memory location. The multi-pass process determines locations of heart beats on at least a first channel of the electrogram. The device-identified group of beat locations are then compared to the multi-pass group of beat locations identified using the multi-pass method. Based on the comparing step, oversensing of beats, undersensing of beats, or noise from the device can be detected.

IPC 8 full level

A61N 1/37 (2006.01)

CPC (source: EP)

A61B 5/0245 (2013.01); **A61B 5/283** (2021.01); **A61B 5/349** (2021.01); **A61N 1/3704** (2013.01); A61B 5/7217 (2013.01); F04C 2270/041 (2013.01)

Citation (search report)

See references of WO 2012166901A1

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 2012166901 A1 20121206; EP 2714189 A1 20140409; JP 2014525762 A 20141002

DOCDB simple family (application)

US 2012040186 W 20120531; EP 12731213 A 20120531; JP 2014513693 A 20120531