

Title (en)
SYSTEM AND METHOD FOR RECONSTRUCTING CARDIAC ACTIVATION INFORMATION

Title (de)
SYSTEM UND VERFAHREN ZUR REKONSTRUKTION VON HERZAKTIVIERUNGSINFORMATIONEN

Title (fr)
SYSTÈME ET PROCÉDÉ DE RECONSTRUCTION D'INFORMATIONS D'ACTIVATION CARDIAQUE

Publication
EP 2967399 A4 20161123 (EN)

Application
EP 14763969 A 20140314

Priority
• US 201313840334 A 20130315
• US 2014029616 W 20140314

Abstract (en)
[origin: CA2903109A1] An example system and method of reconstructing cardiac activation information are disclosed. An analysis signal and a reference signal are processed to determine whether there is a first point of change in a first selected-order derivative of the analysis signal with respect to a first selected-order derivative of the reference signal above a first threshold. The analysis signal and the reference signal are processed to determine whether there is a second point of change in a second selected-order derivative of the analysis cardiac signal above a second threshold. An activation onset time is assigned in the analysis cardiac signal at a point based on a mathematical association of the first point of change and the second point of change to define cardiac activation indicating a beat in the analysis cardiac signal.

IPC 8 full level
A61B 5/296 (2021.01); **A61B 5/363** (2021.01)

CPC (source: EP MX US)
A61B 5/0205 (2013.01 - MX US); **A61B 5/02405** (2013.01 - MX US); **A61B 5/0255** (2013.01 - US); **A61B 5/287** (2021.01 - EP);
A61B 5/316 (2021.01 - MX US); **A61B 5/341** (2021.01 - US); **A61B 5/349** (2021.01 - EP US); **A61B 5/361** (2021.01 - US);
A61B 5/363 (2021.01 - US); **A61B 5/7203** (2013.01 - US); **A61B 5/7217** (2013.01 - US); **A61B 5/7239** (2013.01 - EP);
A61B 5/7246 (2013.01 - US); **A61B 5/7278** (2013.01 - US); **A61B 5/742** (2013.01 - US); **A61B 2562/046** (2013.01 - EP MX)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2014144983A2

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)
AU 2014233461 A1 20150813; BR 112015022401 A2 20170718; CA 2903109 A1 20140918; CN 105142509 A 20151209;
CN 105142509 B 20180511; EP 2967399 A2 20160120; EP 2967399 A4 20161123; JP 2016518166 A 20160623; JP 6386024 B2 20180905;
KR 20150141965 A 20151221; MX 2015011697 A 20160714; RU 2015141382 A 20170421

DOCDB simple family (application)
AU 2014233461 A 20140314; BR 112015022401 A 20140314; CA 2903109 A 20140314; CN 201480010563 A 20140314;
EP 14763969 A 20140314; JP 2016503166 A 20140314; KR 20157028905 A 20140314; MX 2015011697 A 20140314;
RU 2015141382 A 20140314