

Title (en)

SYSTEMS AND METHODS TO IMPROVE ANTI-TACHYCARDIAL PACING (ATP) ALGORITHMS

Title (de)

SYSTEME UND VERFAHREN ZUR VERBESSERUNG DER ALGORITHMEN FÜR ANTI-TACHYKARDIEN-STIMULATION (ATP)

Title (fr)

SYSTÈMES ET PROCÉDÉS VISANT À OPTIMISER LES ALGORITHMES DE STIMULATION ANTITACHYCARDIQUE (ATP)

Publication

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Application

EP 17748195 A 20170202

Priority

- US 201662290417 P 20160202
- US 2017016304 W 20170202

Abstract (en)

[origin: WO2017136609A1] Apparatus, systems and methods are provided for prevention and/or remediation of cardiac arrhythmias, e.g., for optimizing anti-tachycardia pacing (ATP) algorithms. More particularly, implantable devices are provided that measure and treat cardiac arrhythmias. By monitoring the ATP attempt from additional electrodes, far-field morphology analyses, and/or measuring the return interval from a failed ATP attempt, the devices may estimate when entrainment has occurred, the amount of delay within the reentrant tachycardia, and/or tachycardia termination/acceleration. These variables and occurrences can be used to optimize the first and/or subsequent ATP attempts. Furthermore, other exemplary embodiments describe methods to integrate electrical restitution properties into the design of ATP pacing algorithms to facilitate tachycardia termination.

IPC 8 full level

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CPC (source: EP)

A61N 1/3622 (2013.01); **A61B 5/363** (2021.01); **A61B 5/7282** (2013.01)

Citation (search report)

- [E] EP 3174459 A1 20170607 - CARDIOFLOW TECH LLC [US]
- [X] US 2011029033 A1 20110203 - VIRAG NATHALIE [CH], et al
- See references of WO 2017136609A1

Designated contracting state (EPC)

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