Title (en)

LOW-ENERGY ATRIAL CARDIOVERSION THERAPY WITH CONTROLLABLE PULSE-SHAPED WAVEFORMS

Title (de)

NIEDERENERGETISCHE VORHOFKARDIOVERSIONSTHERAPIE MIT STEUERBAREN IMPULSFÖRMIGEN WELLENFORMEN

Title (fr)

THÉRAPIE DE CARDIOVERSION AURICULAIRE À FAIBLE ÉNERGIE AVEC FORMES D'ONDES CONTRÔLABLES EN FORME D'IMPULSIONS

Publication

EP 2797665 A4 20160316 (EN)

Application

EP 12863865 A 20121228

Priority

- US 201161581873 P 20111230
- US 2012072046 W 20121228

Abstract (en)

[origin: WO2013102062A1] An implantable therapy generator that includes sensing circuitry that senses cardiac signals representative of atrial activity and ventricular activity; detection circuitry connected to the sensing circuitry; control circuitry that controls generation and selective delivery of a multi-stage atrial cardioversion therapy to implanted electrodes, each stage of the therapy including multiple pulses, each pulse including multiple high-frequency sub-pulses; and therapy circuitry. The therapy circuitry includes a high-voltage charging circuit charging a storage capacitor to a predetermined voltage; a delivery capacitor connectable to the storage capacitor; and a control circuit adapted to selectively cause the storage capacitor to be electrically connected to the delivery capacitor so as to charge the delivery capacitor to a predetermined delivery voltage, and to cause a delivery switching circuit to be repeatedly opened and closed at a predetermined rate, thereby causing the sub-pulses to be transmitted to the electrodes.

IPC 8 full level

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CPC (source: EP)

A61N 1/395 (2013.01); **A61N 1/3956** (2013.01); **A61N 1/3987** (2013.01); A61N 1/3624 (2013.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2013102062A1

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