

Title (en)

OPTIMIZATION OF IMPEDANCE SIGNALS FOR CLOSED LOOP PROGRAMMING OF CARDIAC RESYNCHRONIZATION THERAPY DEVICES

Title (de)

OPTIMIERUNG VON IMPEDANZSIGNALEN FÜR DIE GESCHLOSSENKREISLAUF-PROGRAMMIERUNG VON HERZSYNCHRONISATIONS-THERAPIEVORRICHTUNGEN

Title (fr)

OPTIMISATION DES SIGNAUX D'IMPEDANCE POUR LA PROGRAMMATION EN BOUCLE FERMEE DES DISPOSITIFS DE THERAPIE DE RESYNCHRONISATION CARDIAQUE

Publication

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Application

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Abstract (en)

[origin: WO2005018570A2] The present invention is related to implantable cardiac devices such as pacemakers and defibrillators that deliver cardiac resynchronization therapy (CRT), and to a method of optimizing acquisition of impedance signals between electrodes present on implanted lead systems. This system then automatically determines which electrodes or electrode combinations acquire impedance waveforms that have the best signal to noise ratio (highest fidelity) and characterize data most representative of dysynchronous electro-mechanical events. Using closed loop algorithms which provide electrograms and a variety of impedance data reflective of the patient's clinical status, the system autonomously modifies interval timing within the CRT device.

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