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**(54) Title (EN):** METHOD AND APPARATUS FOR ESTABLISHING PARAMETERS FOR CARDIAC EVENT DETECTION

**(54) Title (FR):** PROCÉDÉ ET APPAREIL POUR ÉTABLIR DES PARAMÈTRES POUR UNE DÉTECTION D'ÉVÉNEMENT CARDIAQUE

**(57) Abstract:**

**(EN):** A pacemaker having a motion sensor is configured to set atrial event sensing parameters used for sensing atrial systolic events from a motion signal produced by the motion sensor. The pacemaker sets at least one atrial event sensing parameter by identifying ventricular electrical events and setting a sensing window following each of the ventricular electrical events. The pacemaker may determine a feature of the motion signal produced by the motion sensor during each of the sensing windows and set the atrial event sensing parameter based on the determined features.

**(FR):** Un stimulateur cardiaque ayant un capteur de mouvement est conçu pour régler des paramètres de détection d'événements auriculaires utilisés pour détecter des événements systoliques auriculaires à partir d'un signal de mouvement produit par le capteur de mouvement. Le stimulateur cardiaque définit au moins un paramètre de détection d'événement auriculaire par identification d'événements électriques ventriculaires et réglage d'une fenêtre de détection à la suite de chacun des événements électriques ventriculaires. Le stimulateur cardiaque peut déterminer une caractéristique du signal de mouvement produit par le capteur de mouvement pendant chacune des fenêtres de détection et régler le paramètre de détection d'événement auriculaire sur la base des caractéristiques déterminées.

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European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

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### **Declarations:**

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))