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**(54) Title (EN):** FORM ANALYSIS OF A HEART SIGNAL TO DETECT EVOKED RESPONSE

**(54) Title (FR):** ANALYSE FORMELLE PERMETTANT DE DETECTER UNE REPOSE EVOQUEE

**(57) Abstract:**

**(EN):** Method and device for determining capture status of a heart chamber that receives a pulse from an implantable pulse generator (IPG). Signal processing can be used to improve the reliability of capture detection by transforming the sensed response signal into a set of morphological characteristics. Analysis of selected morphological characteristics serves to distinguish signals indicative of capture from signals indicative of loss of capture.

**(FR):** L'invention concerne un procédé et un dispositif permettant de déterminer le statut de saisie d'une cavité cardiaque qui reçoit une impulsion d'un générateur d'impulsion implantable (IPG). Le traitement de signaux sert à améliorer la fiabilité de la détection de saisie par la transformation du signal réponse détecté en un ensemble de caractéristiques morphologiques. L'analyse des caractéristiques morphologiques permet de distinguer les signaux indicateurs de saisie des signaux indicateurs de perte de saisie.

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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