



(11) **EP 3 219 356 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 72

(51) Int Cl.:
A61N 1/05 (2006.01) **A61N 1/365 (2006.01)**
A61B 5/0402 (2006.01) **A61B 5/04 (2006.01)**
A61B 5/0464 (2006.01) **A61N 1/362 (2006.01)**

(48) Corrigendum issued on:
15.11.2017 Bulletin 2017/46

(43) Date of publication:
20.09.2017 Bulletin 2017/38

(21) Application number: **16160234.7**

(22) Date of filing: **14.03.2016**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
MA MD

- **Lilienkamp, Thomas**
37083 Göttingen (DE)
- **Berg, Sebastian**
37075 Göttingen (DE)
- **Parlitz, Ulrich**
37130 Gleichen (DE)
- **Luther, Stefan**
37077 Göttingen (DE)

(71) Applicant: **Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.**
80539 München (DE)

(74) Representative: **REHBERG HÜPPE + PARTNER**
Patentanwälte PartG mbB
Robert-Gernhardt-Platz 1
37073 Göttingen (DE)

(72) Inventors:
• **Schlemmer, Alexander**
37085 Göttingen (DE)

(54) **APPARATUS FOR APPLYING ELECTRIC PULSES TO LIVING MYOCARDIAL TISSUE**

(57) An apparatus for applying at least one electric pulse to a living myocardial tissue comprises an input receiving an electric signal representing a present electric activity of the myocardial tissue; a signal processor (11) processing the electric signal to determine a measure of the present complexity of the electric signal in the state space and to output a control signal (13) when the complexity measure is lower than a predetermined complexity threshold value; a pulse generator configured to generate the at least one electric pulse in response to the control signal; and an output configured to output the at least one electric pulse to the myocardial tissue.

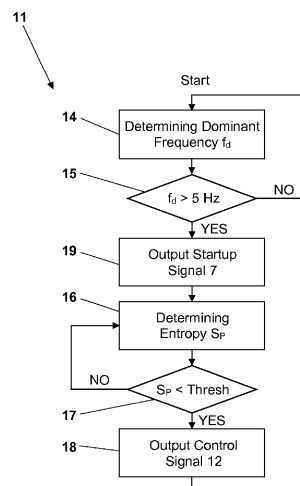


Fig. 2

EP 3 219 356 A8