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(71) Applicant: **PANACEA QUANTUM LEAP TECHNOLOGY LLC** [US/US]; 1801 N. Griffin Dallas, TX 75202, Dallas, Texas (US).

(72) Inventor: **VELASCO VALCKE, Francisco Javier**; Carrera 5 No. 34 - 03, Bogotá (CO).

(74) Agent: **RICHARDSON, Daryl**; 1801 N. Griffin Dallas, Dallas, Texas (US).

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(54) Title: TISSUE-STIMULATING METHOD USING FREQUENCY SCANNING OF ELECTRIC AND MAGNETIC FIELDS

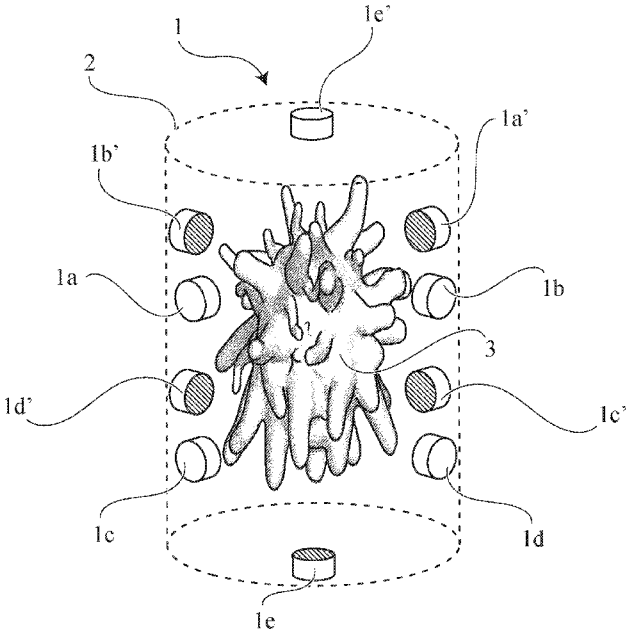

FIG. 1

(57) Abstract: This disclosure corresponds to methods and devices for tissue stimulation with electromagnetic fields by frequency scan. Said frequency scan referring to the variation of the electromagnetic field applied to a tissue via increments in frequency deltas which adapts to a tissue impedance response feedback. In addition, some methods of this disclosure allows determining stimulation frequency bands in order to focus stimuli in said bands until the tissue impedance response returns to a tolerance level or exceeds a maximum stimulation time. Devices for stimulating a tissue with electromagnetic fields comprising a computing unit; an external power source connected to the computing unit; a decoupling circuit connected to the external power source and to the computing unit; an arrangement of electromagnetic transducers connected to the computing unit and to the decoupling circuit; the computing unit executes disclosed methods to generate activation signals that receive the arrangement of the electromagnetic transducers.

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— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
See Search History document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
See Search History document

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
See Search History document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- A	US 2016/0106976 A1 (KUCKLICK, T) 21 April 2016; figures 1-4; paragraphs [0009, 0010, 0012, 0015, 0016].	45 --- 1-44, 46-56
A	US 2018/0000347 A1 (ELIRA, INC.) 04 January 2018; entire document	1-56
A	US 2014/0330345 A1 (JOHN, M) 06 November 2014; entire document.	1-56
A	US 2005/0278001 A1 (QIN, L. et al.) 15 December 2005; entire document.	1-56
A	WO 2017/142948 A1 (NALU MEDICAL, INC.) 24 August 2017; entire document.	1-56

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Date of the actual completion of the international search	Date of mailing of the international search report
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