Abstract: A device for electrically stimulating one or more anatomical target sites in a patient and for use in the treatment of a plurality of biological conditions of the patient. The device has a pulse generator providing electrical stimulation to the anatomical target sites; a power source for powering the pulse generator; stimulator electrodes connected to the pulse generator for stimulating the anatomical target sites; one or more optional sensing electrodes for monitoring physiological parameters with reference to the anatomical target sites; and a microprocessor programmed to vary a plurality of therapy protocol parameters governing the electrical stimulation to thereby modify operational life parameters of the power source.
INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 15/61 108

A. CLASSIFICATION OF SUBJECT MATTER
IPCG - A61N 1/00 (2016.01 )
CPC - A61N 1/00, A61N 1/18, A61N 1/36, A61N 1/32, A61 N 1/3721 1, A61N 1/3721 1, A61 N 1/3726
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)
CPC - A61N1/00, A61 N1/18, A61 N1/36, A61 N1/32, A61 N1/3721 1, A61 N1/3721 1, A61 N1/3726
IPC(6) - A61 N1/00 (2016.01); USPC - 607:48

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
CPC - A61N1/00, A61N1/18, A61N1/36, A61N1/32, A61N1/3721 1, A61N1/3721 1, A61 N1/3726,
IPC(6) - A61N1/00 (2016.01); USPC - 607:48

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Patbase; Google Web, Google Patent
Search terms used: stimulation medical anatomical patient electric current voltage pulse electrode microcontroller
controller power supply battery therapy parameter protocol life lifetime longevity relationship equation formula capacity efficiency width

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>US 5,633,573 A (van Phuc et al.) 27 May 1997 (27.05.1997), entire document</td>
<td>1-23</td>
</tr>
</tbody>
</table>

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
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T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
document member of the same patent family

Date of the actual completion of the international search
17 May 2016 (17.05.2016)

Date of mailing of the international search report
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PCT OSP: 571-272-7774

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