Title: CALIBRATION OF CURRENT SOURCES AND SINKS IN A STIMULATING MEDICAL DEVICE

Abstract: A stimulating medical device, comprising a plurality of electrodes, and a current source and a current sink connected to each one of the electrodes. The medical device also comprises a calibration arrangement configured to compare the current provided by a selected one of the current sources to the current sunk by a selected one of the current sinks, and configured to adjust an operational parameter of at least one of the source and sink based on said comparison such that the current provided by the selected current source is substantially the same as the current sunk by the current sink.
Date of publication of the international search report:
25 August 2011
INTERNATIONAL SEARCH REPORT

International application No. PCT/IB2010/054246

A. CLASSIFICATION OF SUBJECT MATTER

A61N 1/36(2006.01)i, H03M 1/10(2006.01)i, A61B 5/00(2006.01)i, GOIR 35/00(2006.01)i

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)
A61N 1/36; A61N 1/32; A61N 1/00; A61N 1/16

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: electrode, current sink, current source, calibration, operational parameters, medical device.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tr>
<td>A</td>
<td>US 7,539,538 B2 (PARRAMON et al.) 26 May 2009; See the abstract; figures 3 and 5-9; and col. 2, line 65 - col. 3, line 22, col. 5, lines 51-56, and col. 7, line 65 - col. 8, line 1.</td>
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<td>US 6,035,237 A (SCHULMAN JOSEPH S. et al.) 07 March 2000; See the abstract; figures 7-8 and 10; and col.1, line 51 - col. 2, line 10 and col.9, lines 17-65.</td>
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<td>US 4,706,674 A (DIEKEN et al.) 17 November 1987; See the abstract; figures 2-3; and col.5, line 1 - col. 6, line 3.</td>
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<td>US 4,917,093 A (DUFRESNE et al.) 17 April 1990; See the abstract; figures 3-4 and 7; and col.7, line 1 - col. 8, line 25.</td>
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☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:
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Date of the actual completion of the international search
29 JUNE 2011 (29.06.2011)

Date of mailing of the international search report
29 JUNE 2011 (29.06.2011)

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<td>US 2009-204174 A</td>
<td>13.08.2009</td>
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<td>US 6,035,237 A</td>
<td>07.03.2000</td>
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<td>US 4,706,674 A</td>
<td>17.11.1987</td>
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