A clinical grid electrode system for seizure control through local cooling, mapping brain function and provision of reversible functional ablation. The system includes a modular, scalable, cooling and sensing array composed of a plurality of cooling and sensing elements. The system also includes a control system to which die cooling and sensing array is coupled for providing for control and monitoring of die cooling sensing elements making up the cooling and sensing array.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61N 1/00 (2013.01)
USPC - 607/1 13

According to International Patent Classification (IPC) or to both national classification and IPC.

B. DOCUMENTS SEARCHED

Minimum documentation searched (classification system followed by classification symbols):

CPC - A61B 5/00, 5/0476, 5/0478, 5/053; A61F 7/00, 7/12; A61N 1/00, 1/18; G06F 17/00 (2013.01)
USPC - 600/300, 378, 544, 545; 607/2, 91, 96, 98, 99, 109, 113

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched:

CPC - A61B 5/00, 5/0476, 5/0478, 5/053; A61F 7/00, 7/12; A61N 1/00, 1/18; G06F 17/00 (2013.01)

Electronic database consulted during the international search (name of data base and, where practicable, search terms used):

Orbit, Google Patents, Google, Google Scholar

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>Y</td>
<td>US 5,829,876 A (SCHWARTZ et al) 03 November 1998 (03.11.1998) entire document</td>
<td>15, 16</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

* Category definitions:

'A' - document defining the general state of the art which is not considered to be of particular relevance

'P' - document published prior to the international filing date but later than the priority date claimed

'F' - 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

'A6' - earlier application or patent but published on or after the international filing date

'B7' - document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

'O' - document referring to an oral disclosure, use, exhibition or other means

'S' - special categories of cited documents:

document member of the same patent family

Date of the actual completion of the international search:

25 November 2013

Date of mailing of the international search report:

11 DEC 2013

Name and mailing address of the ISA/US:

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Form PCT/ISA/210 (second sheet) (July 2009)