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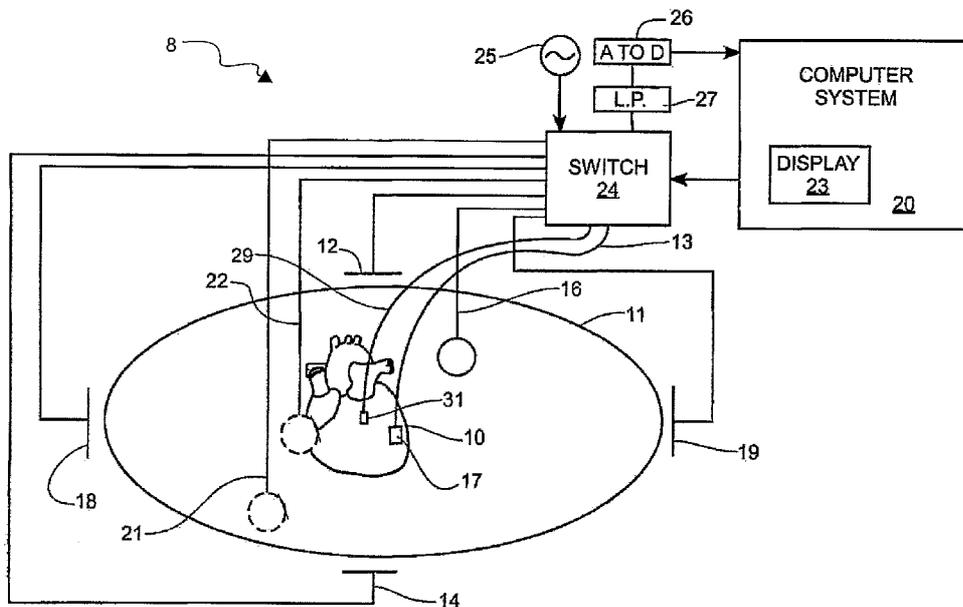
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[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR THREE-DIMENSIONAL MAPPING OF ELECTROPHYSIOLOGY INFORMATION



(57) Abstract: An electrophysiology apparatus (8) is used to measure electrical activity occurring in a heart (10) of a patient (11) and to visualize the electrical activity and/or information related to the electrical activity. A three dimensional map of the electrical activity and/or the information related to the electrical activity is created. Colors, shades of colors, and/or grayscales are assigned to values of the parameters and colors corresponding to the parameters for the electrograms sampled by the electrodes (e.g., 12, 14, 16, 17, 18, 19, 22) are updated on the three dimensional model (62).

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Declarations under Rule 4.17:

- *as to the identity of the inventor (Rule 4.17(i))*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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- *with international search report*

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/35290

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61B 5/04 (2007.01) USPC - 600/374 According to International Patent Classification (IPC) or to both national classification and IPC</p>																										
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) IPC(8) - A61B 5/0402, A61K 50/00, A61H 31/00 A61N 1/36 (2007.01) USPC - 600/374, 601/41, 44, 607/30</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) USPTO EAST System (US, USPG-PUB, EPO, DERWENT)</p>																										
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <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>X</td> <td>US 2004/0254437 A1 (HAUCK et al) 16 December 2004 (16.12.2004) entire document</td> <td>1-4, 8-13, 17-18</td> </tr> <tr> <td>-</td> <td></td> <td>-----</td> </tr> <tr> <td>Y</td> <td></td> <td>5-7, 14-16, 24</td> </tr> <tr> <td>Y</td> <td>US 5,954,665 A (BEN-HAIM) 21 September 1999 (21.09.1999) entire document</td> <td>5-7, 14-16, 19-25</td> </tr> <tr> <td>Y</td> <td>US 6,658,279 B2 (SWANSON et al) 02 December 2003 (02.12.2003) columns 16, 20</td> <td>19-25</td> </tr> <tr> <td>Y</td> <td>US 2004/0059237 A1 (NARAYAN et al) 25 March 2004 (25.03.2004) paragraphs [0167], [0197]</td> <td>21-22</td> </tr> <tr> <td>Y</td> <td>US 4,721,114 A (DFAULT et al) 26 January 1988 (26.01.1988) columns 1, 2</td> <td>23, 25</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 2004/0254437 A1 (HAUCK et al) 16 December 2004 (16.12.2004) entire document	1-4, 8-13, 17-18	-		-----	Y		5-7, 14-16, 24	Y	US 5,954,665 A (BEN-HAIM) 21 September 1999 (21.09.1999) entire document	5-7, 14-16, 19-25	Y	US 6,658,279 B2 (SWANSON et al) 02 December 2003 (02.12.2003) columns 16, 20	19-25	Y	US 2004/0059237 A1 (NARAYAN et al) 25 March 2004 (25.03.2004) paragraphs [0167], [0197]	21-22	Y	US 4,721,114 A (DFAULT et al) 26 January 1988 (26.01.1988) columns 1, 2	23, 25
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<p>Name and mailing address of the ISA/US</p> <p>Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201</p>		<p>Authorized officer:</p> <p><i>Blair R. Copenheaver</i> Blair R. Copenheaver</p> <p>PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774</p>																								