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(54) Title: SYSTEM FOR VISUALIZING HEART ACTIVATION

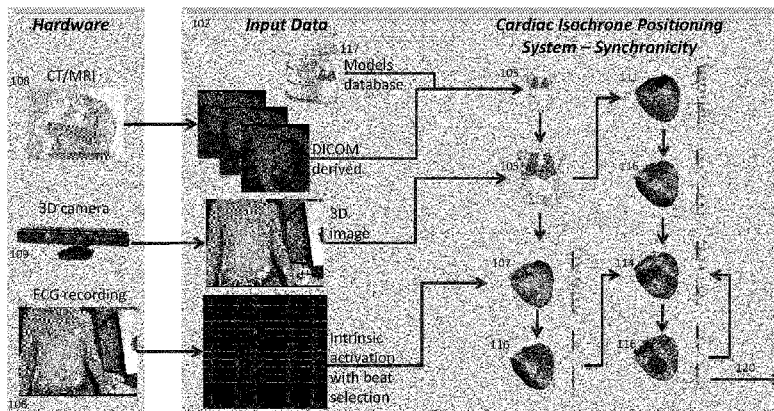


Figure 5

(57) Abstract: The invention relates to a method and a system for providing a representation of synchronicity of electrical activation of heart tissue. The method includes obtaining a three-dimensional model of electrical activation of the heart. The three-dimensional model includes a mesh with a plurality of nodes, each node having associated therewith a time delay between stimulation of the heart at a stimulation site and activation of the heart at that respective node. For each node a stimulus site is defined at the location of that node. For each node a modified three-dimensional model of electrical activation of the heart resulting from stimulation at that node is determined. For each node a measure for heart activation synchronicity for the heart based on stimulation at that node is determined. A heart synchronicity map is determined representing a three-dimensional model of the heart, indicating at each node the respective measure for heart activation synchronicity.

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 ADD.

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 A61B

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

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

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/270703 A1 (HE BIN [US] ET AL) 22 November 2007 (2007-11-22) abstract; figures 2a,6,13 paragraphs [0009] - [0022], [0049] -----	1-28
X	US 2014/371807 A1 (GHOSH SUBHAM [US] ET AL) 18 December 2014 (2014-12-18) the whole document -----	1,20,21, 26-28
X	US 2014/088943 A1 (TRAYANOVA NATALIA A [US] ET AL) 27 March 2014 (2014-03-27) the whole document -----	1,20,21, 26-28
X	US 2013/245473 A1 (RAMANATHAN CHARULATHA [US] ET AL) 19 September 2013 (2013-09-19) the whole document -----	1,20,21, 26-28
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Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance	"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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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer <p align="center">Pereda Cubián, David</p>
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INTERNATIONAL SEARCH REPORT

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010/280399 A1 (FRANCIS DARREL PARTHIPAN [GB] ET AL) 4 November 2010 (2010-11-04) the whole document -----	1,20,21, 26-28

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Information on patent family members

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