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(54) Title: SYSTEM AND METHOD FOR PERSONALIZED HEMODYNAMICS MODELING AND MONITORING

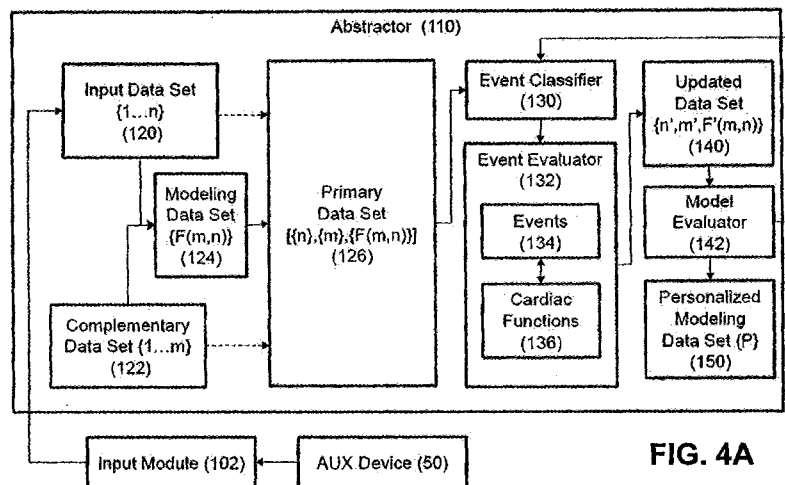


FIG. 4A

(57) Abstract: The present invention relates to a system and a method for evaluating cardiac parameters and forming a personalized cardiac model, and in particular, to such a system and method in which a personalized cardiac model is abstracted and utilized for monitoring cardiac parameters.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/IB 14/00331

<p><b>A. CLASSIFICATION OF SUBJECT MATTER</b>                  IPC(8) - G06G 7/60 (2015.01)                  CPC - G06F 19/3437; G06 G 7/60                  According to International Patent Classification (IPC) or to both national classification and IPC</p>																													
<p><b>B. FIELDS SEARCHED</b></p> <p>Minimum documentation searched (classification system followed by classification symbols)                  IPC(8) - G06 G 7/60 (2015.01)                  CPC - G06F 19/3437; G06 G 7/60</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched                  703/11, 9; G06F 19/34; G06F 17/5009; G06F 17/5009- 17/504 (CPC)                  (Search term limited; see below)</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)                  PubWest (PGPB, USPT, EPAB, JPAB); Google; PatBase (All);                  Search Terms: Model*, simulat*, mathemat*, heart, cardio, cardiovascular, cardiac, ventricular, ventricle, chamber, aortic, luminal, cycle, heartbeat, beat, stable, stabil*, balance, equilib*, blood, flow, velocity, diameter, size, volume, area, personal*, patient, user, subject, indiv</p>																													
<p><b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b></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>A</td> <td>US 2011/0144967 A1 (ADIROVICH) 16 June 2011 (16.08.2011) Entire document, especially Abstract, para[0051], para[0078], para[0093]- para[0099], para[0120]- para[0121], para[0150]- para[0151] and FIGS. 2-3.</td> <td>1-24</td> </tr> <tr> <td>A</td> <td>US 2009/0209869 A1 (KOVACS et al.) 20 August 2009 (20.08.2009) Entire document, especially Abstract, para[0101].</td> <td>1-24</td> </tr> <tr> <td>A</td> <td>US 2012/0303564 A1 (DOBSON et al.) 29 November 2012 (29.11.2012) Entire document, especially Abstract para[0032], para[0052]- para[0053].</td> <td>1-24</td> </tr> <tr> <td>A</td> <td>US 2012/0022843 A1 (IONASEC et al.) 26 January 2012 (26.01.2012) Entire document.</td> <td>1-24</td> </tr> <tr> <td>A</td> <td>US 2011/0060576 A1 (SHARMA et al.) 10 March 2011 (10.03.2011) Entire document.</td> <td>1-24</td> </tr> <tr> <td>A</td> <td>US 2012/0150516 A1 (TAYLOR et al.) 14 June 2012 (14.06.2012) Entire document.</td> <td>1-24</td> </tr> <tr> <td>A</td> <td>US 2008/0319308 A1 (TANG) 25 December 2008 (25.12.2008) Entire document.</td> <td>1-24</td> </tr> <tr> <td>A</td> <td>US 2006/0149522 A1 (TANG) 06 July 2006 (06.07.2006) Entire document.</td> <td>1-24</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	A	US 2011/0144967 A1 (ADIROVICH) 16 June 2011 (16.08.2011) Entire document, especially Abstract, para[0051], para[0078], para[0093]- para[0099], para[0120]- para[0121], para[0150]- para[0151] and FIGS. 2-3.	1-24	A	US 2009/0209869 A1 (KOVACS et al.) 20 August 2009 (20.08.2009) Entire document, especially Abstract, para[0101].	1-24	A	US 2012/0303564 A1 (DOBSON et al.) 29 November 2012 (29.11.2012) Entire document, especially Abstract para[0032], para[0052]- para[0053].	1-24	A	US 2012/0022843 A1 (IONASEC et al.) 26 January 2012 (26.01.2012) Entire document.	1-24	A	US 2011/0060576 A1 (SHARMA et al.) 10 March 2011 (10.03.2011) Entire document.	1-24	A	US 2012/0150516 A1 (TAYLOR et al.) 14 June 2012 (14.06.2012) Entire document.	1-24	A	US 2008/0319308 A1 (TANG) 25 December 2008 (25.12.2008) Entire document.	1-24	A	US 2006/0149522 A1 (TANG) 06 July 2006 (06.07.2006) Entire document.	1-24
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<p>Date of the actual completion of the international search</p> <p>1 July 2015 (01.07.2015)</p>		<p>Date of mailing of the international search report</p> <p><b>23 JUL 2015</b></p>																											
<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. 571-273-8300</p>		<p>Authorized officer:</p> <p>Lee W. Young</p> <p>PCT Helpdesk: 571-272-4300                  PCT OSP: 571-272-7774</p>																											