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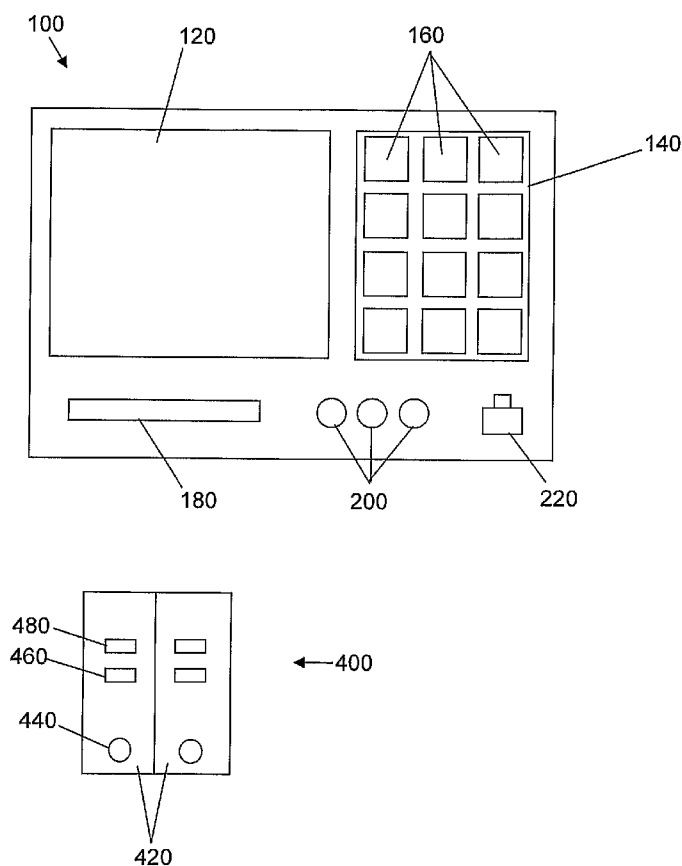
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(54) Title: DEVICE AND METHOD OF MONITORING A PATIENT



(57) Abstract: A device for remote management of patients suffering or likely to suffer from heart failure that can measure the amplitude and frequency changes of one or more biomarkers. The device aids in predicting the need for medical intervention in such patients. The device may further aid in monitoring the efficacy and safety of treatment in such patients.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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Electronic data base consulted during the international search (name of data base and, where practical, 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 6 487 442 B1 (WOOD NICHOLAS [US]) 26 November 2002 (2002-11-26) abstract; claims 1,21	1-50
X	WO 2004/046722 A2 (JOHANN WOLFGANG GOETHE UNI FRA [DE]; ZEIHNER ANDREAS M [DE]; HEESCHEN C) 3 June 2004 (2004-06-03) abstract; claims 1-21	1-50
X	WO 2004/046729 A2 (UNIV LEICESTER [GB]; INVERNESS MEDICAL SWITZERLAND [CH]; NG LEONG [GB]) 3 June 2004 (2004-06-03) abstract; examples 2,3	1-50
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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 2005/014198 A1 (NG LEONG [GB]) 20 January 2005 (2005-01-20) abstract; figure 1 page 2, right-hand column, paragraph 33 - paragraph 34 page 3, left-hand column, paragraph 36 - paragraph 46 page 8, paragraph 108 page 8, paragraph 116 - paragraph 120; claims 1,15,18-20 -----	1-50

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6487442	B1	26-11-2002	NONE	
WO 2004046722	A2	03-06-2004	AU 2003288027 A1 CA 2509063 A1 EP 1561116 A2 JP 2006508367 T	15-06-2004 03-06-2004 10-08-2005 09-03-2006
WO 2004046729	A2	03-06-2004	AU 2003302132 A1 CA 2507415 A1 EP 1565753 A2 JP 2006507510 T US 2004265926 A1	15-06-2004 03-06-2004 24-08-2005 02-03-2006 30-12-2004
US 2005014198	A1	20-01-2005	NONE	