



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
15.05.2002 Bulletin 2002/20

(51) Int Cl.⁷: **G06F 19/00, A61B 5/00**

(43) Date of publication A2:
23.05.2001 Bulletin 2001/21

(21) Application number: **00650195.1**

(22) Date of filing: **16.11.2000**

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR
 Designated Extension States:
AL LT LV MK RO SI

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(30) Priority: **16.11.1999 US 441612**

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(54) **Automated collection and analysis patient care system and method for diagnosing and monitoring myocardial ischemia and outcomes thereof**

(57) An automated system and method for diagnosing and monitoring myocardial ischemia and outcomes thereof is described. A plurality of monitoring sets is retrieved from a database. Each of the monitoring sets includes recorded measures relating to patient information recorded on a substantially continuous basis. A patient status change is determined by comparing at least one recorded measure from each of the monitoring sets

to at least one other recorded measure. Both recorded measures relate to the same type of patient information. Each patient status change is tested against an indicator threshold corresponding to the same type of patient information as the recorded measures that were compared. The indicator threshold corresponds to a quantifiable physiological measure of a pathophysiology indicative of myocardial ischemia.

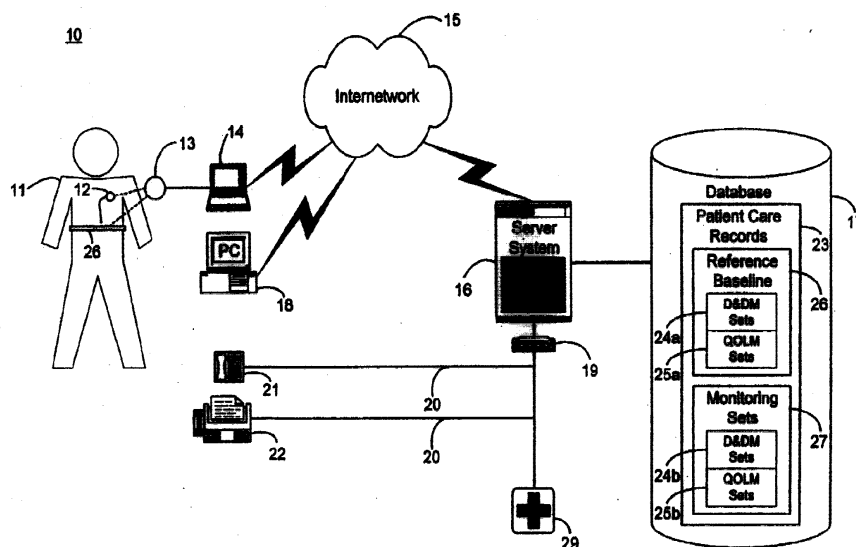


FIGURE 1



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 65 0195

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	EP 0 711 531 A (KARLSSON PER ;LUNDAHL GUNILLA (SE); UBBY JOHAN (SE); OLJEMARK MICH) 15 May 1996 (1996-05-15)	1,13,27, 28	G06F19/00 A61B5/00
A	* page 5, line 44 - page 11, line 47 *	2-12, 14-26	
	* page 13, line 8 - line 56; figures 4-14 *		

A	EP 0 513 457 A (CALIBER MEDICAL CORP) 19 November 1992 (1992-11-19)	1,13,27, 28	
	* abstract *		
	* column 2, line 19 - column 5, line 2 *		

A	US 5 331 549 A (CRAWFORD JR JOHN M) 19 July 1994 (1994-07-19)	1,13,27, 28	
	* abstract *		
	* column 2, line 31 - column 3, line 7 *		
	* column 3, line 32 - column 9, line 26; figures 1-7 *		

A	US 5 860 918 A (SCHRADI ET AL) 19 January 1999 (1999-01-19)	1,13,27, 28	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
	* abstract *		A61B
	* column 1, line 54 - column 4, line 62 *		G06F

A	US 5 778 882 A (RAYMOND ET AL) 14 July 1998 (1998-07-14)	1,13,27, 28	
	* abstract *		
	* column 1, line 40 - column 3, line 57 *		

The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 25 March 2002	Examiner Schenkels, P
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1503 03 82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 65 0195

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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25-03-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0711531	A	15-05-1996	US 5520191 A	28-05-1996
			EP 0711531 A1	15-05-1996
			JP 8182660 A	16-07-1996
			US 6038469 A	14-03-2000
			US 5819741 A	13-10-1998
EP 0513457	A	19-11-1992	US 5181519 A	26-01-1993
			AU 646209 B2	10-02-1994
			AU 8609091 A	19-11-1992
			CA 2054609 C	13-06-1995
			EP 0513457 A1	19-11-1992
			JP 4347136 A	02-12-1992
US 5331549	A	19-07-1994	NONE	
US 5860918	A	19-01-1999	NONE	
US 5778882	A	14-07-1998	AU 5356996 A	11-09-1996
			US 6095985 A	01-08-2000
			WO 9625877 A2	29-08-1996
			US 6282441 B1	28-08-2001
			US 2002032384 A1	14-03-2002
			US 2002032385 A1	14-03-2002

专利名称(译)	自动收集和分析用于诊断和监测心肌缺血及其结果的患者护理系统和方法		
公开(公告)号	EP1102197A3	公开(公告)日	2002-05-15
申请号	EP2000650195	申请日	2000-11-16
[标]申请(专利权)人(译)	心脏情报		
申请(专利权)人(译)	心脏智能CORPORATION		
当前申请(专利权)人(译)	心脏智能CORPORATION		
[标]发明人	BARDY GUST H		
发明人	BARDY, GUST H.		
IPC分类号	G06F19/00 A61B5/00		
CPC分类号	A61B5/0006 A61B5/0205 A61B5/0215 A61B5/02438 A61B5/029 A61B5/0452 A61B5/046 A61B5/0472 G06F19/324 G06F19/3418 G06F19/3481 G16H10/60 G16H15/00 G16H20/40 G16H40/67 G16H50/20 A61B5/02 A61B5/0402 A61B5/486 A61N1/36507		
优先权	09/441612 1999-11-16 US		
其他公开文献	EP1102197A2		
外部链接	Espacenet		

摘要(译)

描述了用于诊断和监测心肌缺血及其结果的自动系统和方法。从数据库中检索多个监视集。每个监测组包括与基本连续记录的患者信息有关的记录的测量。通过将来自每个监测组的至少一个记录的测量值与至少一个其他记录的测量值进行比较来确定患者状态变化。两种记录的测量都与相同类型的患者信息有关。针对与所比较的记录的测量值相同的患者信息类型对应的指标阈值来测试每个患者状态变化。指示剂阈值对应于指示心肌缺血的病理生理学的可量化生理学测量。

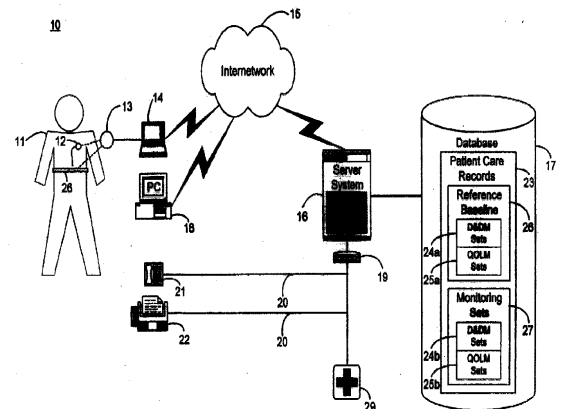


FIGURE 1