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(54) **Method and system for measuring temperature and of adjusting for temperature sensitivity with a medical device having a position sensor**

(57) A method for measuring temperature and of adjusting for temperature sensitivity of a medical device having a position sensor comprises the steps of providing a medical device having a position sensor and measuring voltage at the position sensor. A resistance value is then determined from the measured voltage and a temperature value at the position sensor is determined based on the resistance value. The temperature value

is determined using the position sensor. Accordingly, temperature is directly measured and monitored using the position sensor itself. Additionally, a sensitivity is determined at the position sensor based on the temperature. Location information from the position sensor is adjusted based on the sensitivity.



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EUROPEAN SEARCH REPORT

Application Number
EP 02 25 4181

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)
Y,D	US 5 558 091 A (ACKER DAVID E ET AL) 24 September 1996 (1996-09-24) * abstract * * column 10; claim 1; figures 1,2 * ---	1-21	A61B5/00 G01K13/00 A61B5/06
Y	US 4 099 238 A (SUZUKI TOMOAKI) 4 July 1978 (1978-07-04) * abstract * * column 3; claims 1-4; figures 1-7 * ---	1-21	
A	EP 1 055 392 A (RADI MEDICAL SYSTEMS) 29 November 2000 (2000-11-29) * claim 1; figures 7,8 * ---	1,13	
A	US 4 427 943 A (CLOUTIER PAUL A ET AL) 24 January 1984 (1984-01-24) * column 6; claim 1; figure 8 * ---	1,13	
A	US 4 327 416 A (JERRIM JOHN W) 27 April 1982 (1982-04-27) * claim 1; figures 1-3 * -----	1,13	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			A61B G01B G01V G06K G06R G01R
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 5 November 2003	Examiner Bernas, Y
CATEGORY OF CITED DOCUMENTS 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 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			

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

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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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专利名称(译)	用于利用具有位置传感器的医疗装置测量温度和调节温度灵敏度的方法和系统		
公开(公告)号	EP1266610A3	公开(公告)日	2004-01-02
申请号	EP2002254181	申请日	2002-06-14
[标]申请(专利权)人(译)	生物感覺有限公司		
申请(专利权)人(译)	生物传感，INC.		
当前申请(专利权)人(译)	生物传感韦伯斯特，INC.		
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IPC分类号	G01K7/16 A61B5/00 A61B5/01 A61B5/028 A61B5/06 A61B17/00 A61B19/00 G01B7/00 G01B7/30 G01K13/00		
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代理机构(译)	MERCER，CHRISTOPHER PAUL		
优先权	09/882126 2001-06-15 US		
其他公开文献	EP1266610B1 EP1266610A2		
外部链接	Espacenet		

摘要(译)

用于测量具有位置传感器的医疗装置的温度和调节温度灵敏度的方法包括提供具有位置传感器和在位置传感器处测量电压的医疗装置的步骤。然后根据测量的电压确定电阻值，并且基于电阻值确定位置传感器处的温度值。使用位置传感器确定温度值。因此，使用位置传感器本身直接测量和监测温度。另外，基于温度在位置传感器处确定灵敏度。来自位置传感器的位置信息基于灵敏度进行调整。

European Patent Office		EUROPEAN SEARCH REPORT		Application Number EP 02 25 4181
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The present search report has been drawn up for all claims				
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