



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 98/37805 A (DIASENSE INC [US]; COOPER PATRICK J [US]; BARKER TODD Q [US]) 3 September 1998 (1998-09-03) * pages 10-11; claims 1,2 * -----	1-7, 11-13, 15, 29-35, 49-54, 56-59	INV. A61B5/00
X	WO 02/16905 A (EURO CELTIQUE SA [LU]; CIURCZAK EMIL W [US]; MARK HOWARD [US]; BYNUM K) 28 February 2002 (2002-02-28) * pages 15-18 * -----	1-7, 11-13, 15-18, 21, 29-36, 49-54, 56-59, 61-64,66	
X	US 5 671 301 A (KUPERSHMITD VLADIMIR [US]) 23 September 1997 (1997-09-23) * column 6, lines 28-60 - columns 11-12; claim 1 * -----	1-7, 29-33, 35,38, 49-54, 56,59	TECHNICAL FIELDS SEARCHED (IPC) A61B
X	US 5 068 536 A (ROSENTHAL ROBERT D [US]) 26 November 1991 (1991-11-26) * column 5, line 2 - column 6, line 55; claim 1 * -----	1-7,11, 13, 29-33, 35,38, 49-54, 56,59	
X	WO 00/49941 A (MINIMED INC [US]) 31 August 2000 (2000-08-31) * pages 7-8 * -----	49-53, 56,57	
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search Munich		Date of completion of the search 18 March 2008	Examiner Chopinaud, Marjorie
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			



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:
- ☒ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-21,29-40,49-66

A method or an apparatus for controlling error in calibration of a noninvasive glucose analyzer comprising: collecting one or more noninvasive signals from a subject's body at an alternative sampling site; determining an alternative reference glucose measurement corresponding to each noninvasive signal from said body at an alternative reference measurement site having a tissue matrix substantially identical or equivalent to a tissue matrix at said alternative sampling site and: any of the steps of: calibrating said glucose analyzer utilizing said one or more noninvasive signals and said reference glucose measurements; and maintaining said glucose analyzer utilizing said one or more noninvasive signals and reference glucose measurements.

2. claims: 22-28

A method of accounting for sampling-related differences in blood glucose measurements comprising : providing a transform that models a relationship between sets of glucose measurements wherein each set includes samples collected in a different manner, and converting subsequent measurements according to said transform.

3. claims: 41-48

A method of calibration, comprising : collecting spectra with a glucose analyzer from a first region on a subject's body; generating corresponding reference glucose concentrations from a second region on said subject's body, so that a first set of paired data points is created; collecting a second set of reference signals from said first region and correlating said second set of reference signals with said spectra, so that a second set of paired data points is created; determining difference in glucose concentrations between corresponding reference values from said first set of paired data points and said second set of paired data points; and selecting a calibration set of paired spectra and reference glucose concentration from said first set based on said difference.

The subject-matter between the three groups of inventions is the



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

acquisition of a set of glucose measurements collected in a different manner. This feature is known from documents D1-D5 : the three groups of inventions are therefore not unite.

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

EP 03 74 4151

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

18-03-2008

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9837805	A	03-09-1998	EP	1011426 A1	28-06-2000
WO 0216905	A	28-02-2002	AU	8829201 A	04-03-2002
			EP	1311189 A2	21-05-2003
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			AU	3243500 A	14-09-2000
			CA	2353486 A1	31-08-2000
			DE	60035025 T2	24-01-2008
			EP	1154718 A1	21-11-2001
			JP	2002541883 T	10-12-2002
			US	6424847 B1	23-07-2002

专利名称(译)	使用替代位点葡萄糖测定来校准和维持非侵入性和可植入分析仪的方法和装置		
公开(公告)号	EP1509126A4	公开(公告)日	2008-05-07
申请号	EP2003744151	申请日	2003-03-03
申请(专利权)人(译)	SENSYS MEDICAL , INC.		
当前申请(专利权)人(译)	SENSYS MEDICAL , INC.		
[标]发明人	MONFRE STEPHEN L HAZEN KEVIN H RUCHTI TIMOTHY L BLANK THOMAS B HENDERSON JAMES R		
发明人	MONFRE, STEPHEN, L. HAZEN, KEVIN, H. RUCHTI, TIMOTHY, L. BLANK, THOMAS, B. HENDERSON, JAMES, R.		
IPC分类号	A61B5/145 A61B5/00 A61B5/1455 A61B5/1495 G01N21/27 G01N21/35 G01N21/49		
CPC分类号	A61B5/1455 A61B5/14532 A61B5/1495 G01N21/274 G01N21/359 G01N21/49		
优先权	60/362899 2002-03-08 US 60/362885 2002-03-08 US 10/377916 2003-02-28 US		
其他公开文献	EP1509126A2		
外部链接	Espacenet		

摘要(译)

用于校准非侵入性或可植入葡萄糖分析仪的方法和设备使用替代的侵入性葡萄糖测定或非侵入性葡萄糖测定来校准非侵入性或可植入的葡萄糖分析仪。在校准中使用替代的侵入性或非侵入性葡萄糖测定允许最小化由于采样方法引起的误差，以及内置于校准模型中的空间和时间变化。另外的实施方案使用非侵入性和替代性侵入性葡萄糖测定与传统侵入性葡萄糖测定之间的统计相关性来将非侵入性或替代性侵入性葡萄糖浓度调节至传统的侵入性葡萄糖浓度。本发明提供了一种基于葡萄糖测定进行校准的方法，该方法反映了观察到的基质和由分析仪测量的变量。葡萄糖分析仪将侵入式手指针刺仪与非侵入式葡萄糖分析仪耦合，用于校准，验证，适应和安全检查非侵入式分析仪中包含的校准模型。

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Date of search: Munich		Date of completion of the search: 18 March 2008	Examiner: Chopinaud, Marjorie
CATEGORY OF CITED DOCUMENTS > particularly relevant if taken alone V particularly relevant if combined with another document of the same category A technological background P intermediate document		I theory or principle underlying the invention E earlier patent document, first published on, or after, the filing date D document cited in the application L document cited for other reasons A (member of the same patent family, corresponding document	