



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
25.04.2012 Bulletin 2012/17

(51) Int Cl.:
A61B 5/1455 (2006.01) **A61B 5/00** (2006.01)
G08B 21/04 (2006.01) **A61B 5/0205** (2006.01)

(43) Date of publication A2:
31.08.2011 Bulletin 2011/35

(21) Application number: **11163908.4**

(22) Date of filing: **10.12.2002**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
IE IT LI LU MC NL PT SE SI SK TR**

(71) Applicant: **Medic4all AG**
6304 Zug (CH)

(30) Priority: **10.12.2001 US 6357**

(72) Inventor: **Goldreich, Rami**
48621, Rosh HaAyin (IL)

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
02793300.1 / 1 459 274

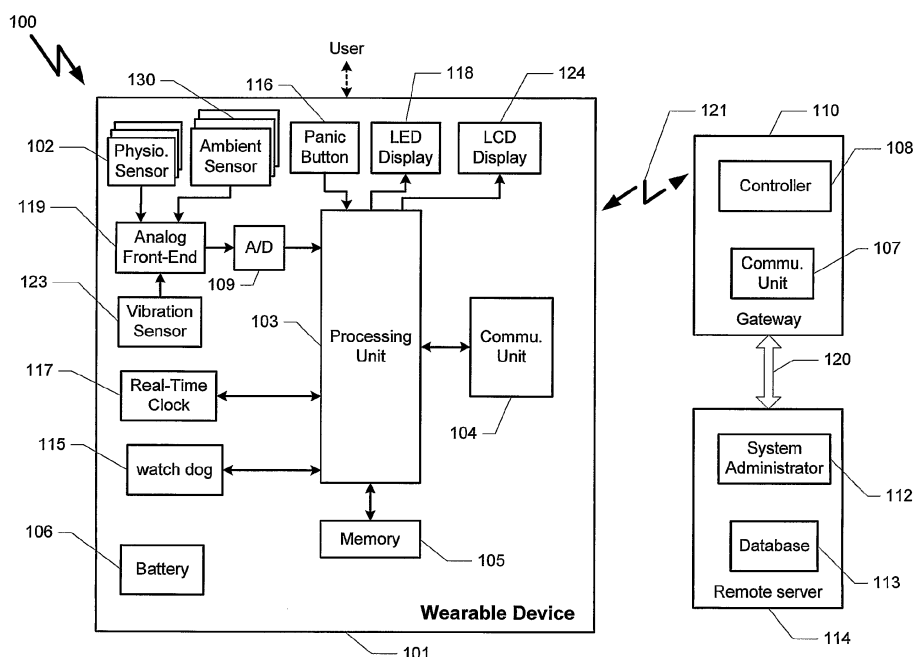
(74) Representative: **Dennemeyer & Associates S.A.**
55, rue des Bruyères
1274 Howald (LU)

(54) **Method and device for measuring physiological parameters at the wrist**

(57) The present invention relates to a device (101) for measuring at least one physiological parameter of a subject, comprising (a) a fastening article for being fastened to the wrist of a first hand of the subject; and (b) a measuring device (102) for measuring at least one physiological parameter of the subject, said measuring device configured to be attached to the wrist by said fastening article, said measuring device comprises (i) at least one

sensor for measuring at least oxygen saturation (SpO₂) in the blood of the subject; (ii) a processor (103) for receiving a signal from said sensor and for converting said at least one measurement to form medical information; and wherein said measuring device is configured to be attached to the wrist of a first hand of said subject and wherein said sensor is configured to be touched by a finger of said subject to perform said SpO₂ measurement.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
EP 11 16 3908

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	US 5 735 799 A (BABA NORIMITSU [JP] ET AL) 7 April 1998 (1998-04-07)	1,2,12	INV. A61B5/1455 A61B5/00 G08B21/04 A61B5/0205
Y	* column 7, lines 50-53 * * figures 3,5 *	3-11,13,14	
Y	US 4 129 124 A (THALMANN RENE A) 12 December 1978 (1978-12-12) * figure 2 *	3,13	
Y	US 5 652 570 A (LEPKOFKER ROBERT [US]) 29 July 1997 (1997-07-29) * paragraphs [0053] - [0057] * * column 7, lines 11-17,22-24 * * column 8, lines 46-48 * * figure 7 *	4-11,14	
A	US 5 316 008 A (SUGA FUSAO [JP] ET AL) 31 May 1994 (1994-05-31) * figures 1,2 *	1-14	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			A61B
Place of search		Date of completion of the search	Examiner
The Hague		21 March 2012	Worms, Georg
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			

1
EPO FORM 1503 03/82 (P04C01)

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

EP 11 16 3908

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.

21-03-2012

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5735799 A	07-04-1998	JP 3303299 B2 US 5735799 A WO 9415525 A1	15-07-2002 07-04-1998 21-07-1994
US 4129124 A	12-12-1978	CH 591233 A5 DE 2637669 A1 US 4129124 A	15-09-1977 29-09-1977 12-12-1978
US 5652570 A	29-07-1997	NONE	
US 5316008 A	31-05-1994	NONE	

专利名称(译)	用于测量手腕处的生理参数的方法和设备		
公开(公告)号	EP2361555A3	公开(公告)日	2012-04-25
申请号	EP2011163908	申请日	2002-12-10
申请(专利权)人(译)	MEDIC4ALL AG		
当前申请(专利权)人(译)	MEDIC4ALL AG		
[标]发明人	GOLDREICH RAMI		
发明人	GOLDREICH, RAMI		
IPC分类号	A61B5/1455 A61B5/00 G08B21/04 A61B5/0205 A61B5/01 A61B5/021 A61B5/022 A61B5/0245 A61B5/0408 A61B5/0452 A61B5/0478 A61B5/08 A61B5/145		
CPC分类号	G08B21/04 A61B5/0002 A61B5/0205 A61B5/02055 A61B5/021 A61B5/02438 A61B5/11 A61B5/14532 A61B5/14551 A61B5/681 A61B2560/0209 A61B2560/0271 A61B2562/02 Y10S128/903		
代理机构(译)	丹麦美国律师协会		
优先权	10/006357 2001-12-10 US		
其他公开文献	EP2361555A2		
外部链接	Espacenet		

摘要(译)

本发明涉及一种用于测量对象的至少一个生理参数的装置，包括：(a) 用于紧固到对象的第一只手的手腕的紧固件；(b) 用于测量受试者的至少一个生理参数的测量装置，所述测量装置构造造成通过所述紧固制品附接到手腕，所述测量装置包括(i) 至少一个用于测量至少氧饱和度的传感器(SpO₂) 在受试者的血液中；(ii) 处理器，用于接收来自所述传感器的信号并用于转换所述至少一个测量值以形成医疗信息；并且其中所述测量装置被配置为附接到所述对象的第一手的手腕，并且其中所述传感器被配置为由所述对象的手指触摸以执行所述SpO₂测量。

