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(72) Inventors:  
• **Lu, Hsueh-Kuan**  
**Taichung City 400, Taiwan (TW)**  
• **Lu, Chih-Yi**  
**Chiayi County 606 (TW)**

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(74) Representative: **Prentice, Raymond Roy**  
**Calvert's Buildings,**  
**52B Borough High Street**  
**London SE1 1XN (GB)**

(71) Applicant: **Zen-u Biotechnology Co., Ltd**  
**Sindian City, Taipei 231 (TW)**

(54) **Method of measuring blood circulation velocity by controlling breath**

(57) A method of measuring blood circulation velocity by controlling a person's breath includes the steps of keeping the person in a first breathing status with a blood oxygen saturation analytical instrument; setting an initial time point and starting to record a blood oxygen saturation value per predict time interval; requesting the person to change into a second breathing status at a first time point; requesting the person to change into a third breathing status at a second time point; stopping recording the blood oxygen saturation value at a terminal time point; setting a reference time point according to the blood oxygen saturation value which has a variation according to the records; obtaining the person's blood circulation velocity, which is proportional to the reciprocal of the difference of the reference time point and the first time point.

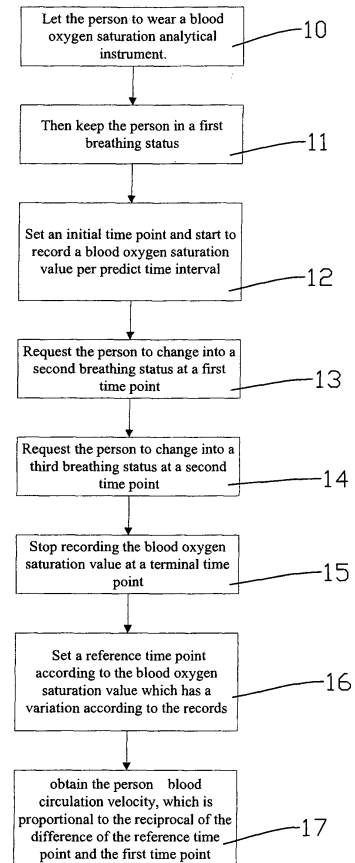


FIG. 1

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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	DE 30 19 234 A1 (UNIV DUKE [US]) 3 December 1981 (1981-12-03) * page 14, paragraph 2 * * page 31, paragraph 2 *	1,2,6,7	INV. A61B5/00 A61B5/0285 A61B5/0275
Y	-----	3-5,8-10	
Y	WO 2005/110532 A (MEDTRONIC INC [US]; MARKOWITZ H TOBY [US]; MEHTA POOJA [US]; SOWELAM S) 24 November 2005 (2005-11-24) * figure 1 * * page 2, line 16 - line 18 * * page 5, paragraph 3 * * page 6, paragraph 2 * * page 7, line 1 - line 4 * * page 9, paragraph 1 * * page 11, paragraph 2 * * page 20, paragraph 1 *	3-5,8-10	
A,P	EP 1 685 796 A (NIHON KOHDEN CORP [JP]) 2 August 2006 (2006-08-02) * the whole document * -----	1-10	
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
Munich		26 April 2007	Scheffler, Arnaud
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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EPO FORM 1503 03.02 (P04CO1)

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

EP 06 25 6050

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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26-04-2007

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 3019234	A1	03-12-1981	NONE	
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WO 2005110532	A	24-11-2005	NONE	
-----				
EP 1685796	A	02-08-2006	JP 2006231012 A	07-09-2006
			US 2006173258 A1	03-08-2006
-----				

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	通过控制呼吸来测量血液循环速度的方法		
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申请(专利权)人(译)	禅生生物科技有限公司		
当前申请(专利权)人(译)	禅生生物科技有限公司		
[标]发明人	LU HSUEH KUAN LU CHIH YI		
发明人	LU, HSUEH-KUAN LU, CHIH-YI		
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优先权	200510126928.5 2005-11-28 CN		
其他公开文献	EP1790282A2		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

通过控制人的呼吸来测量血液循环速度的方法包括用血氧饱和度分析仪器将人保持在第一呼吸状态的步骤;设定初始时间点并开始记录每个预测时间间隔的血氧饱和度值;要求该人在第一时间点改变为第二呼吸状态;要求该人在第二时间点改变为第三呼吸状态;停止在终点时间点记录血氧饱和度值;根据血氧饱和度值设定参考时间点,血氧饱和度值根据记录变化;获得人的血液循环速度,其与参考时间点和第一时间点的差的倒数成比例。

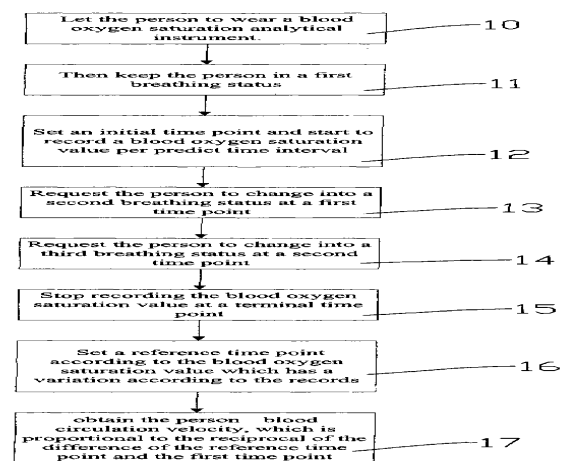


FIG. 1