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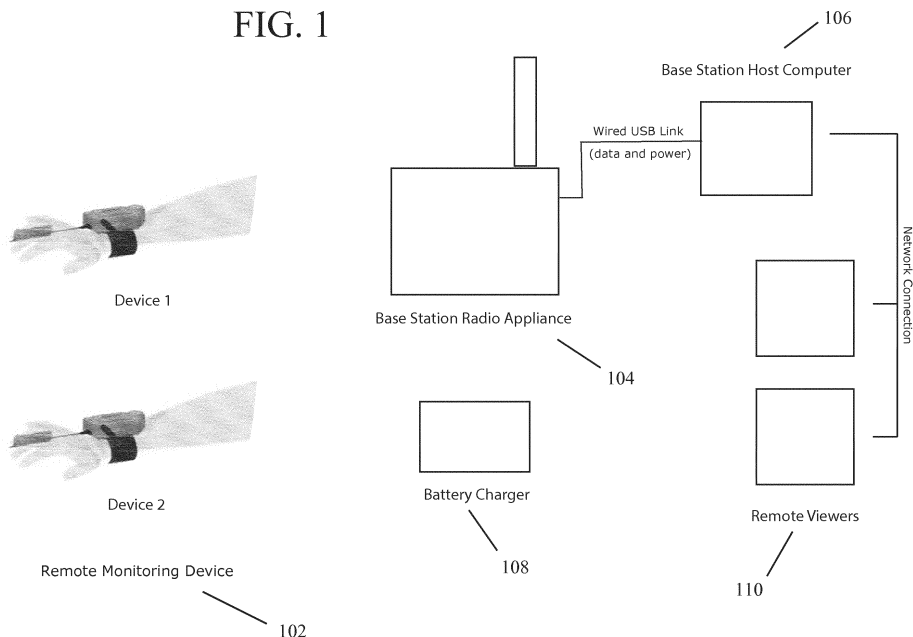
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(54) **Systems for monitoring and notification of vital sign changes**

(57) A system for monitoring and notification of injury wherein an individual wears a monitoring device, the monitoring device tracks physiological data such as blood oxygen levels, heart rate, and acceleration of the individual and may send the data to a base station, the monitoring device or the base station analyzes the data

to see if bodily changes such as decreased blood oxygen levels or significant changes in heart rate or acceleration have occurred, and the monitoring device or the base station determines whether to sound an alarm to indicate an emergency such as death or severe bodily injury.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
EP 15 15 3372

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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	WO 2012/174420 A2 (RES FOUNDATION OF THE STATE OF NEW YORK [US]; KAUFMAN ANDREW [US]; KNO) 20 December 2012 (2012-12-20)	1,3-8, 10-12	INV. A61B5/00 G08B21/02
Y	* paragraph [0023] - paragraph [0033] * * paragraphs [0037], [0041], [0047], [0054] * * paragraph [0064] - paragraph [0069] * * paragraph [0075] - paragraph [0079] * * paragraph [0083] * * paragraph [00103] - paragraph [00104] * * figures *	14	ADD. A61B5/024 A61B5/11 A61B5/1455
X	----- US 2008/266118 A1 (PIERSON NICHOLAS J [US] ET AL) 30 October 2008 (2008-10-30)	1-7,13	
Y	* paragraph [0020] - paragraph [0053] * * figures 1-4 *	9,14	
X	----- JP 2008 029590 A (SEIKO EPSON CORP) 14 February 2008 (2008-02-14)	1,6	
A	* paragraph [0019] - paragraph [0032] * * figures 2-6 *	2,13,14	TECHNICAL FIELDS SEARCHED (IPC)
X	----- US 2013/143519 A1 (DOEZEMA MARY [US]) 6 June 2013 (2013-06-06)	1,7,8,10	A61B G08B
A	* paragraph [0026] - paragraph [0062] * * figures 1-5 * * paragraph [0095] *	14	
Y	----- US 2011/021930 A1 (MAZZEO ANTONIO [IT] ET AL) 27 January 2011 (2011-01-27)	9	
	* paragraph [0015] * * paragraph [0194] - paragraph [0195] * * figures 28,28A *		
A	----- US 2013/072807 A1 (TRAN BAO [US]) 21 March 2013 (2013-03-21)	1-14	
	* paragraph [0213] - paragraph [0229] * * paragraph [0238] - paragraph [0243] * * figures 6A-8 *		
----- The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		11 June 2015	Görlach, Tobias
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			

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due 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 those claims for which no payment was due.

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:

1-14

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).

**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

EP 15 15 3372

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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:

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1. claims: 1-14

Wearable sensing device

1.1. claims: 2, 13, 14

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Pulse oximeter on finger

1.2. claim: 9

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Circuit enclosure engaged with cradle

2. claim: 15

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Injury detection

Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

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

EP 15 15 3372

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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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11-06-2015

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2012174420 A2	20-12-2012	US 2015077245 A1 WO 2012174420 A2	19-03-2015 20-12-2012
US 2008266118 A1	30-10-2008	NONE	
JP 2008029590 A	14-02-2008	NONE	
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US 2013072807 A1	21-03-2013	NONE	

EPO FORM P0459

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

专利名称(译)	用于监测和通知生命体征变化的系统		
公开(公告)号	EP2901921A3	公开(公告)日	2015-11-04
申请号	EP2015153372	申请日	2015-01-30
[标]申请(专利权)人(译)	PACIFIC PLACE ENTERPRISES		
申请(专利权)人(译)	PACIFIC PLACE企业, 有限责任公司		
当前申请(专利权)人(译)	PACIFIC PLACE企业, 有限责任公司		
[标]发明人	BAILEY MELANIE BALLEW CONNIE SEGERMARK JAMES		
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IPC分类号	A61B5/00 G08B21/02 A61B5/024 A61B5/11 A61B5/1455		
CPC分类号	A61B5/6802 A61B5/002 A61B5/02416 A61B5/11 A61B5/14551 A61B5/681 A61B5/6826 A61B5/6831 A61B5/746 A61B5/747 A61B2560/0443 A61B2562/0219 G08B21/0415 G08B21/0453		
代理机构(译)	博登KEITH麦克默里		
优先权	14/246001 2014-04-04 US 61/934766 2014-02-01 US		
其他公开文献	EP2901921A2		
外部链接	Espacenet		

摘要(译)

一种用于监测和通知伤害的系统，其中个体佩戴监测装置，监测装置跟踪生理数据，例如血氧水平，心率和个体的加速度，并且可以将数据发送到基站，监测装置或基站分析数据以查看是否发生了诸如血氧水平降低或心率或加速度的显著变化之类的身体变化，并且监测设备或基站确定是否发出警报以指示诸如死亡或严重的身体伤害。

