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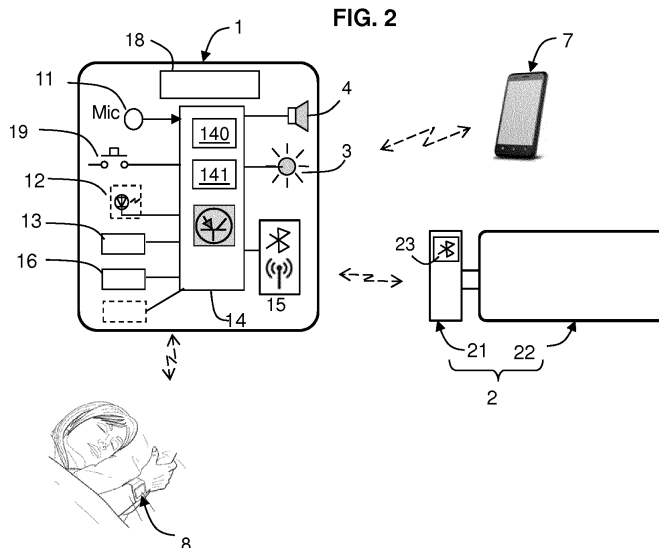
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(54) **SYSTEM TO MONITOR AND ASSIST INDIVIDUAL'S SLEEP**

(57) A sleep assist system to monitor and assist the user's sleep, comprises: a bedside device adapted to be positioned near the user's bed, the bedside device optionally comprising a loudspeaker, a light source, a microphone, a light sensor, a temperature sensor, a control unit, an air quality sensor, a display unit, a user interface. The system further comprises a first sensing unit posi-

tioned in the user's bed comprising one or more sensors adapted to sense at least pressure and changes in pressure exerted by the user lying in the bed. An additional sensor device is in contact with the user's body, and coupled to the bedside device. The system is configured to correlate the data obtained from both the first sensing unit and the additional sensor device.







EUROPEAN SEARCH REPORT

Application Number  
EP 15 17 7444

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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)
A	WO 2013/171799 A1 (HITACHI LTD [JP]; KAWAMOTO KEN [JP]; KURIYAMA HIROYUKI [JP]; OGASAWARA) 21 November 2013 (2013-11-21) * section "Embodiment of the invention", in part. par. 19 *	3	A61M21/02 G01G19/44 A61M21/00
A	US 2013/310700 A1 (WIARD RICHARD M [US] ET AL) 21 November 2013 (2013-11-21) * paragraphs [0005] - [0010] *	4-6	
A	US 2014/018638 A1 (CHATTERJEE SAMIR [US]) 16 January 2014 (2014-01-16) * claim 1 *	9	
A	US 2008/157956 A1 (RADIVOJEVIC ZORAN [FI] ET AL) 3 July 2008 (2008-07-03) * figure 1 * * paragraphs [0058], [0064] *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
-The present search report has been drawn up for all claims			
Place of search <b>The Hague</b>		Date of completion of the search <b>23 November 2015</b>	Examiner <b>Albrecht, Ronald</b>
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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**CLAIMS INCURRING FEES**

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

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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):

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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.

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**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:

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see sheet B

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All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

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As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

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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:

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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:

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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  
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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: 1-12

sleep assist system using multiple sensor units on the body  
and separate from the body

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2. claim: 13

sleep modification based on sensed sleep cycles by visual  
and acoustic stimulation

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

EP 15 17 7444

5 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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23-11-2015

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专利名称(译)	用于监控和协助个人睡眠的系统		
公开(公告)号	<a href="#">EP2976994A3</a>	公开(公告)日	2016-04-27
申请号	EP2015177444	申请日	2015-07-20
[标]申请(专利权)人(译)	WITHINGS		
申请(专利权)人(译)	WITHINGS		
当前申请(专利权)人(译)	WITHINGS		
[标]发明人	DUSANTER FLORENT YANG RUIYI BUARD NADINE CARREL ERIC VILLARD JOFFREY		
发明人	DUSANTER, FLORENT YANG, RUIYI BUARD, NADINE CARREL, ERIC VILLARD, JOFFREY		
IPC分类号	A61B5/00 A61B5/01 A61B5/024 A61B5/08 A61B5/11 A61B5/113 A61B10/00 A61B5/02 A61B5/021 A61B5/026 A61B5/0285 A61H9/00 A61B5/1455 A61B5/16 A61F5/56 A61M21/02 G01G19/44 A61M21/00		
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代理机构(译)	柜PLASSERAUD		
审查员(译)	ALBRECHT, RONALD		
优先权	14/336910 2014-07-21 US		
其他公开文献	EP2976994A2		
外部链接	<a href="#">Espacenet</a>		

#### 摘要(译)

一种用于监视和协助用户睡眠的睡眠辅助系统，包括：适于定位在用户床附近的床边装置，床边装置可选地包括扬声器，光源，麦克风，光传感器，温度传感器，控制单元，空气质量传感器，显示单元，用户界面。该系统还包括位于用户床中的第一传感单元，该第一传感单元包括一个或多个传感器，该传感器适于至少感测由躺在床上的使用者施加的压力和压力变化。另外的传感器装置与使用者的身体接触，并且耦合到床边装置。该系统被配置为关联从第一感测单元和附加传感器设备两者获得的数据。

FIG. 2

