



(11) **EP 2 777 484 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
26.11.2014 Bulletin 2014/48

(51) Int Cl.:
A61B 5/00 (2006.01) G08B 21/02 (2006.01)
H04M 1/725 (2006.01)

(43) Date of publication A2:
17.09.2014 Bulletin 2014/38

(21) Application number: **13006054.4**

(22) Date of filing: **27.12.2013**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

(72) Inventors:
• **Huh, Jiyoung**
Seoul 137-724 (KR)
• **Park, Myungeun**
Seoul 137-724 (KR)
• **Hong, Seungbum**
Seoul 137-724 (KR)

(30) Priority: **15.03.2013 KR 20130027754**

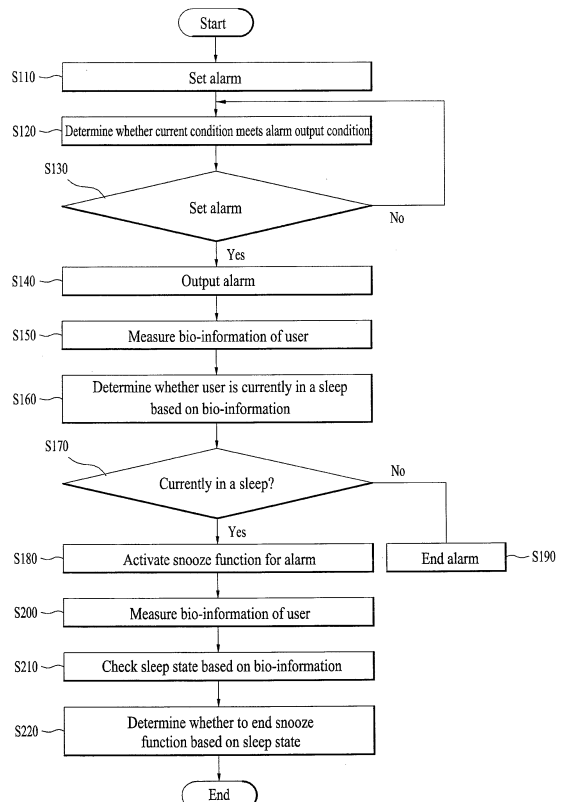
(74) Representative: **Beyer, Andreas**
Wuesthoff & Wuesthoff
Patent- und Rechtsanwälte
Schweigerstrasse 2
81541 München (DE)

(71) Applicant: **LG Electronics Inc.**
Yeongdeungpo-gu
Seoul 150-721 (KR)

(54) **Mobile terminal with control of snoozing function dependent on sleeping state**

(57) A mobile terminal and a method of controlling the same are disclosed, by which a snooze function for an alarm can be activated depending on whether a user sleeps after outputting the alarm. The mobile terminal may include a sensor (190) configured to sense information associated with a user, a memory (160) configured to store prescribed alarm settings, an output unit (150) configured to provide an alarm based on the stored alarm settings, a controller (180) configured to control the alarm based on the sensed information, wherein the controller configured to control the output unit to output the alarm based on the alarm settings, control the sensor to sense the information associated with the user after the alarm is provided, determine whether the sensed information corresponds to a sleep state of the user, and automatically activate a snooze function when the sensed information corresponds to the sleep state.

FIG. 5



EP 2 777 484 A3



EUROPEAN SEARCH REPORT

Application Number
EP 13 00 6054

5

10

15

20

25

30

35

40

45

50

55

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 2003/142591 A1 (BAWEJA BALJEET SINGH [US] ET AL) 31 July 2003 (2003-07-31)	1,3-15	INV. A61B5/00 G08B21/02 H04M1/725	
Y	* paragraphs [0010], [0021], [0026], [0034], [0036], [0037], [0038] *	2		
X	WO 2011/027266 A1 (KONINKL PHILIPS ELECTRONICS NV [NL]; DU JIA [NL]; ZWARTKRUIS-PELGRIM P) 10 March 2011 (2011-03-10)	1,3-15		
A	* page 3, line 31 - page 4, line 27 * * page 6, line 12 - page 7, line 18 *	2		
X	EP 1 855 170 A2 (SAMSUNG ELECTRONICS CO LTD [KR]) 14 November 2007 (2007-11-14)	1,3-15		
A	* paragraph [0020] - paragraph [0027] * * paragraph [0041] - paragraph [0045] *	2		
X	JP 2009 232925 A (PANASONIC ELEC WORKS CO LTD) 15 October 2009 (2009-10-15)	1,3-15		
A	* paragraph [0023] - paragraph [0024] *	2		
Y	US 2012/007737 A1 (KANGAS JARI [FI] ET AL) 12 January 2012 (2012-01-12)	2		TECHNICAL FIELDS SEARCHED (IPC)
A	US 2003/095476 A1 (MOLLICONE DANIEL JOSEPH [CA] ET AL) 22 May 2003 (2003-05-22)	1-15		A61B G08B H04M G04G
	* paragraphs [0016] - [0020] * * paragraphs [0042] - [0049] *			
The present search report has been drawn up for all claims				
Place of search Munich		Date of completion of the search 21 October 2014	Examiner Agante da Silva, P	
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		

2
EPO FORM 1503_03_02 (F04C01)

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

EP 13 00 6054

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

21-10-2014

10

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003142591 A1	31-07-2003	NONE	

WO 2011027266 A1	10-03-2011	CN 102483610 A EP 2473887 A1 JP 2013504058 A US 2012163136 A1 WO 2011027266 A1	30-05-2012 11-07-2012 04-02-2013 28-06-2012 10-03-2011

EP 1855170 A2	14-11-2007	CN 101071139 A EP 1855170 A2 US 2007263490 A1 US 2009278668 A1	14-11-2007 14-11-2007 15-11-2007 12-11-2009

JP 2009232925 A	15-10-2009	JP 5390782 B2 JP 2009232925 A	15-01-2014 15-10-2009

US 2012007737 A1	12-01-2012	CN 102985895 A EP 2591409 A1 US 2012007737 A1 WO 2012004730 A1	20-03-2013 15-05-2013 12-01-2012 12-01-2012

US 2003095476 A1	22-05-2003	AU 2002340674 A1 US 2003095476 A1 WO 03044606 A1	10-06-2003 22-05-2003 30-05-2003

15

20

25

30

35

40

45

50

EPO FORM P0459

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

55

专利名称(译)	具有控制打盹功能的移动终端取决于睡眠状态		
公开(公告)号	EP2777484A3	公开(公告)日	2014-11-26
申请号	EP2013006054	申请日	2013-12-27
申请(专利权)人(译)	LG电子株式会社.		
当前申请(专利权)人(译)	LG电子株式会社.		
[标]发明人	HUH JIYOUNG PARK MYUNGEUN HONG SEUNGBUM		
发明人	HUH, JIYOUNG PARK, MYUNGEUN HONG, SEUNGBUM		
IPC分类号	A61B5/00 G08B21/02 H04M1/725		
代理机构(译)	拜尔, ANDREAS		
优先权	1020130027754 2013-03-15 KR		
其他公开文献	EP2777484B1 EP2777484A2		
外部链接	Espacenet		

摘要(译)

公开了一种移动终端及其控制方法，通过该移动终端可以根据用户在输出警报之后是否休眠来激活警报的贪睡功能。移动终端可包括：传感器（190），被配置为感测与用户相关联的信息；存储器（160），被配置为存储规定的警报设置；输出单元（150），被配置为基于所存储的警报设置来提供警报，a控制器（180），用于根据检测到的信息控制报警，其中控制器根据报警设置控制输出单元输出报警，控制传感器在报警发生后检测与用户关联的信息确定所感测的信息是否对应于用户的睡眠状态，并且当感测的信息对应于睡眠状态时自动激活贪睡功能。

