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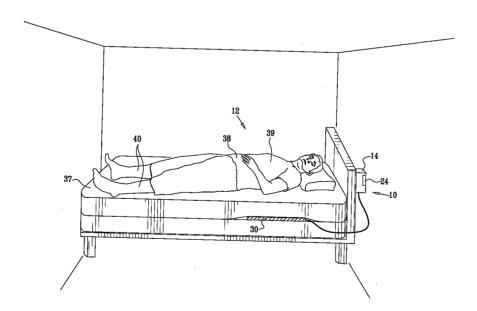
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(57) Abstract: A method is provided for predicting an onset of an asthma attack. The method includes sensing at least one parameter of a subject without contacting or viewing the subject or clothes the subject is wearing, and predicting the onset of the asthma attack at least in part responsively to the sensed parameter. Also provided is a method for predicting an onset of an episode associated with congestive heart failure (CHF), including sensing at least one parameter of a subject without contacting or viewing the subject or clothes the subject is wearing, and predicting the onset of the episode at least in part responsively to the sensed parameter. Other embodiments are also described.





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C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	enpropriete of the relevant passages	Relevant to claim No.	
X	US 2003/0153831 A1 (ZUMERIS et al) 14 August 2		6-13. 117, 118	
~	[0037], [0039], [0045], [0089].	2004 (14.06.2004), paragraphs [0030],	0-13. 117, 116	
X	US 2005/0124864 A1 (MACK et al) 09 June 2005 (09.06.2005), paragraphs [0009], [0011]-	16, 17, 25-28, 38-43,	
X, P	[0014], [0036], [0045], [0051], [0090]-[0096]. US 2005/0192508 A1 (LANGE et al) 1 September 2	2005 (01 00 2005) entire document	121, 126, 127, 134 29, 30, 36, 56-58, 61-	
7, 1	OB 2005/01/2500 AT (EAROLE OF ME) T SEPTEMBER 2	3005 (01:09:2005), entire document.	63, 65, 67-73, 75, 105-	
			107. 109-115, 128, 131.	
			139-141, 144-146, 148, 150-156, 158, 165-167,	
			169-175	
X	US 6352517 B1 (FLOCK et al) 05 March 2002 (05.0 line 43 and figure 4.	03.2002), column 8 line 62 to column 9	44-46 and 135	
X	US 6325761 B1 (JAY) 04 December 2001 (04.12.20	001) column 3, lines 40-67; column 9.	54, 55, 138	
	lines 18-25.	, , , , , , , , , , , , , , , , , , , ,		
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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Х	US 2004/0133079 A1 (MAZAR et al) 08 July 2004 (08.07.2004), paragraphs [0008], [0038].	81, 82, 160	
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