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- (71) Applicant (for all designated States except US): **NEUROVIGIL, INC.** [US/US]; 10010 N. Torrey Pines Road, La Jolla, California 92037 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **LOW, Philip** [CA/US]; 10010 N. Torrey Pines Road, La Jolla, California 92037 (US).
- (74) Agent: **JURGENSEN, Thomas, E.**; 9710 Scranton Road, San Diego, CA 92181 (US).
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[Continued on next page]

(54) Title: METHODS OF IDENTIFYING SLEEP AND WAKING PATTERNS AND USES

(57) Abstract: Traditional analysis of sleep patterns requires several channels of data. This analysis can be useful for customized analysis including assessing sleep quality, detecting pathological conditions, determining the effect of medication on sleep states and identifying biomarkers, and drug dosages or reactions. A novel analysis is presented, for the extraction and analysis of attenuated rhythms collected from the scalp of animals based on the combination of single channel analysis methods for sleep and non-invasive recordings.

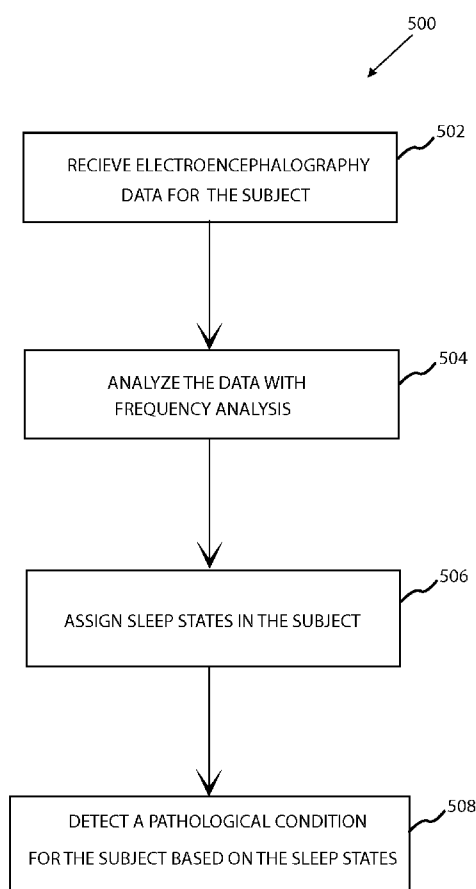


FIG. 5



WO 2010/057119 A3

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B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC(8) - A61B 5/04, 4/0408, 5/0448, 5/05 (2011.01) USPC - 600/544, 547; 435/22; 607/2 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) MicroPatent, Google Patent		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/0016095 A1 (LOW et al) 18 January 2007 (18.01.2007) entire document	1-3, 6-7, 9-21, 25
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Y		4-5, 8, 22-24, 26-27
Y	US 6,993,380 B1 (MODARRES) 31 January 2006 (31.01.2006) entire document	4-5, 8, 22-24, 26-27
A	US 2008/0071326 A1 (HERUTH et al) 20 March 2008 (20.03.2008) entire document	1-27
A	US 2007/0105180 A1 (SHAW et al) 10 May 2007 (10.05.2007) entire document	1-27
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