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(54) **Assessment of medical conditions**

(57) The present invention is directed to methods for analyzing electrical signals generated by biological tissues, such as muscles (e.g., cardiac or skeletal muscle) and tissue within the nervous system (e.g., neurons within the central and peripheral nervous systems). The tissue may be a patient's own, or it may have been trans-

planted into the patient from a donor organism or from a tissue or cell culture. The result of the analysis indicates the condition of the tissue, and results obtained over time can alert a patient or health care professional to changes in that condition.

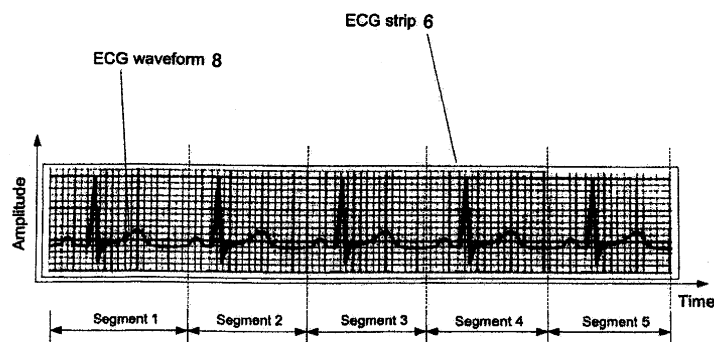


FIG. 1



EUROPEAN SEARCH REPORT

Application Number
EP 13 15 5471

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	TOTH A ET AL: "QRS Score: a composite index of exercise-induced changes in the Q, R, and S waves during exercise stress testing in patients with ischemic heart disease.", ANNALS OF NONINVASIVE ELECTROCARDIOLOGY, vol. 6, no. 4, October 2001 (2001-10), pages 310-318, XP002579514, ISSN: 1082-720X * the whole document *	1-24	INV. A61B5/0452 A61B5/04 A61B5/00 ADD. A61B5/0488 A61B5/0476
X	US 6 983 183 B2 (THIAGARAJAN SRIKANTH [US] ET AL) 3 January 2006 (2006-01-03) * the whole document *	1-24	
X	MICHAELIDES A P ET AL: "New coronary artery disease index based on exercise-induced QRS changes", AMERICAN HEART JOURNAL, vol. 120, no. 2, 1 August 1990 (1990-08-01), pages 292-302, XP022948921, ISSN: 0002-8703 [retrieved on 1990-08-01] * the whole document *	1-24	
A	JAGER F ET AL: "DETECTION OF TRANSIENT ST SEGMENT EPISODES DURING AMBULATORY ECG MONITORING", COMPUTERS AND BIOMEDICAL RESEARCH, vol. 31, no. 5, 1 January 1998 (1998-01-01), pages 305-322, XP000925490, ISSN: 0010-4809 * section "Noise Detection" on p. 311; fig. 1 *	5,13,21	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 9 May 2014	Examiner Küster, Gunilla
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 13 15 5471

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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09-05-2014

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US 6983183 B2	03-01-2006	US 2003060724 A1 WO 03005879 A2	27-03-2003 23-01-2003

EPO FORM P0459

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

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[标]申请(专利权)人(译)	LIFESCI解决方案 RICHARDSON CHARLES大号		
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其他公开文献	EP2599436A2		
外部链接	Espacenet		

摘要(译)

本发明涉及分析由生物组织（例如肌肉（例如，心脏或骨骼肌）和神经系统内的组织（例如，中枢和外周神经系统内的神经元）产生的电信号的方法。组织可以是患者自己的组织，或者可以从供体生物体或组织或细胞培养物中移植到患者体内。分析结果表明组织的状况，并且随着时间的推移获得的结果可以警告患者或医疗保健专业人员该状况的变化。

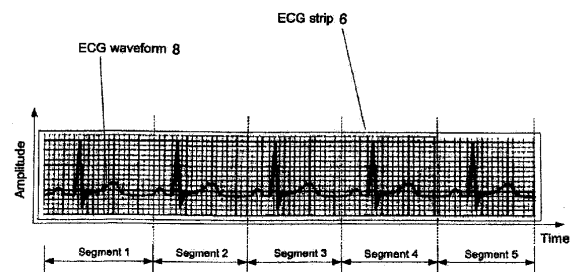


FIG. 1