



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
04.10.2017 Bulletin 2017/40

(51) Int Cl.:
A61B 5/08 (2006.01) **A61B 5/113 (2006.01)**
A61B 5/00 (2006.01)

(43) Date of publication A2:
08.05.2013 Bulletin 2013/19

(21) Application number: **13152334.2**

(22) Date of filing: **09.04.2004**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

(30) Priority: **10.04.2003 US 461738 P**
26.09.2003 US 506904 P

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
04759405.6 / 1 622 512

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(54) **Systems and methods for respiratory event dedection**

(57) The present invention is directed to an improved method for determining respiratory parameters. The method is capable of discriminating particular respiratory from base respiratory events and comprises the steps: a.) receiving respiratory signals (21) from one or more monitored subjects such that the respiratory signals include one or more particular respiratory events (37-45) and one or more base respiratory events, b.) evaluating the capability of individual respiratory parameters and of combinations of respiratory parameters to statistically discriminate between the particular and the base respiratory events, and c.) selecting an individual respiratory parameter or a combination of respiratory parameters with adequate discriminatory capability.

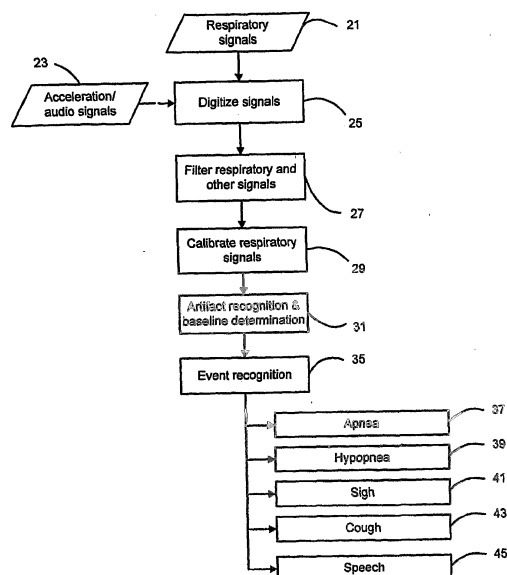


FIG. 2



SUPPLEMENTARY PARTIAL EUROPEAN SEARCH REPORT

under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of
subsequent proceedings, as the European search report

Application Number

EP 04 75 9405

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	WO 01/28420 A1 (ELECTRIC POWER RES INST [US]) 26 April 2001 (2001-04-26) * page 3, paragraph 3 * * page 5, paragraph 3 * * page 7, last paragraph; figure 3 * -----	1-12,76, 77	INV. A61B5/08 A61B5/113
Y	EP 0 875 199 A1 (SEIKO EPSON CORP [JP]) 4 November 1998 (1998-11-04) * column 18, lines 44-50 * -----	1-12,76, 77	
A	US 4 537 196 A (PHILLIPPS PATRICK G [US] ET AL) 27 August 1985 (1985-08-27) * column 3, paragraphs 2,3 * * column 8, paragraph 2; figure 3 * -----	1-12,76, 77	
A	WO 03/022149 A2 (TUFTS COLLEGE [US]) 20 March 2003 (2003-03-20) * the whole document * -----	1-12,76, 77	
A	GB 1 596 298 A (MORGAN LTD P K) 26 August 1981 (1981-08-26) * the whole document * -----	1-12,76, 77	TECHNICAL FIELDS SEARCHED (IPC) A61B

The supplementary search report has been based on the last set of claims valid
and available at the start of the search.

INCOMPLETE SEARCH

The Search Division considers that the present application, or one or more of its claims, does/do
not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.

Claims searched completely :

Claims searched incompletely :

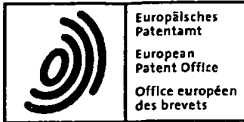
Claims not searched :

Reason for the limitation of the search:

see sheet C

1
EPO FORM 1503 03.02 (P04/E20)

Place of search	Date of completion of the search	Examiner
Berlin	17 January 2011	Clevorn, Jens
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		

**INCOMPLETE SEARCH
SHEET C**

Application Number

EP 04 75 9405

Claim(s) completely searchable:
1-12, 76, 77

Claim(s) not searched:
13-75, 78, 79

Reason for the limitation of the search:

The search has been restricted to the subject-matter indicated by the applicant in his letter of 02.11.2010 filed in reply to the invitation pursuant to Rule 62a(1) and/or Rule 63(1) EPC.

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

EP 04 75 9405

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.

17-01-2011

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EPO FORM P0459

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

专利名称(译)	用于呼吸事件检测的系统和方法		
公开(公告)号	EP2589335A3	公开(公告)日	2017-10-04
申请号	EP2013152334	申请日	2004-04-09
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申请(专利权)人(译)	阿迪达斯		
当前申请(专利权)人(译)	阿迪达斯		
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发明人	COYLE, MICHAEL KEENAN, DESMOND B. DERCHAK, ALEXANDER P. SACKNER, MARVIN A. WILHELM, FRANK GILROY, KEITH GUMMELS, EMERANCE M. INMAN, DANA MICHAEL KENNEDY, PAUL MITCHNIK, MARK BEHAR, ANDREW		
IPC分类号	A61B5/08 A61B5/113 A61B5/00 A61B5/091 A61B7/00 A61K		
CPC分类号	A61B5/0806 A61B5/0823 A61B5/091 A61B5/1135 A61B5/4818 A61B5/6805 A61B5/721 A61B5/725 A61B5/7267 A61B7/003 A61B2562/0219 G16H50/70		
优先权	60/461738 2003-04-10 US 60/506904 2003-09-26 US		
其他公开文献	EP2589335A2		
外部链接	Espacenet		

摘要(译)

本发明涉及一种用于确定呼吸参数的改进方法。该方法能够区分特定呼吸与基础呼吸事件，并且包括以下步骤：a。) 从一个或多个被监测对象接收呼吸信号 (21)，使得呼吸信号包括一个或多个特定呼吸事件 (37-45) 和一个或多个基础呼吸事件，b。) 评估个体呼吸参数和呼吸参数组合的能力，以统计地区分特定呼吸事件和基础呼吸事件，c。) 选择个体呼吸参数或呼吸参数的组合具有足够的歧视能力。

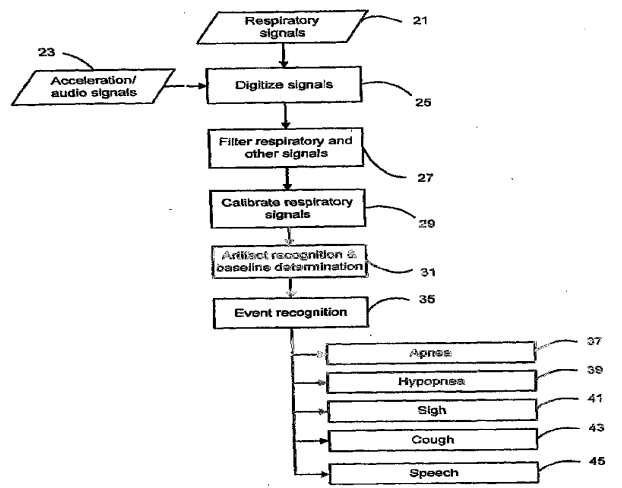


FIG. 2