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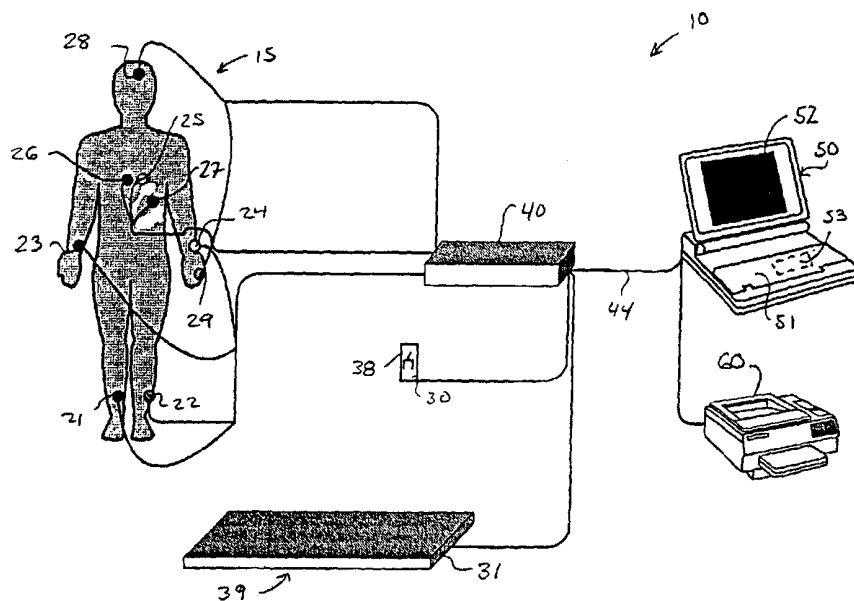
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- (71) Applicant: OMEGAWAVE LLC [US/US]; 213 Grayfox Drive, Sutherlin, OR 97479 (US). (88) Date of publication of the international search report: 18 July 2002
- (72) Inventors: MASAKOV, Leonid, Vasilyevich; 2732 Sunnyview Lane, Eugene, OR 97405 (US). LARIONOV, For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: APPARATUS AND METHOD FOR NON-INVASIVE MEASUREMENT OF CURRENT FUNCTIONAL STATE AND ADAPTIVE RESPONSE IN HUMANS



(57) Abstract: An apparatus and method for non-invasively assessing the functional state and state of homeostasis of a human. Specifically selected and designed tests provide efficient and comprehensive and/or targeted assessment, depending on which tests are selected. The test preferably include heart rate variability, differential ECG, omega brain wave, jump and stimulus response tests. The non-invasive manner of data recording permits frequent testing which is critical in assessing adaptive response and other performance criteria. The sensor (21-31), interface/adaptor (40) and computing device (50) are preferably light weight to promote portability.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/15598

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) :A61B 5/00, 5/02, 5/04

US CL :600/483, 481, 513, 300, 301, 544, 508

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 600/483, 481, 513, 300, 301, 544, 508

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	US 6,126,595 A (AMANO ET AL.) 03 OCTOBER 2000, ABSTRACT.	1, 8
A	US 5,941,820 A (ZIMMERMAN) 24 AUGUST 1999, ABSTRACT.	1, 8
A	US 5,771,897 A (ZUFRIN) 30 JUNE 1998, ABSTRACT.	1, 8

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

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