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(71) Applicant and

(72) Inventor: EPLEY, John, M. [US/US]; 6371 SE Yamhill Street, Portland, OR 97215 (US).

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(74) Agent: DICKINSON, Jon, M., P.C.; 8015 SE 31st Avenue, Portland, OR 97202 (US).

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(54) Title: HEAD-STABILIZED MEDICAL APPARATUS, SYSTEM AND METHODOLOGY

(57) Abstract: Structure and methodology involving mountable and head-wearable frame structure which is positionally stabilized, during use, relative a human subject's head, and which carries a selection of positionally anchored data sensors, and stimuli deliverers, that are relevant to the diagnosis and treatment of vestibular disorders. Special configurations are provided for two types of stimulators, one for sound application and air-pressure modification, and the other for the introduction of fluids to the ear. Stabilization enables tight and accurate correlation of data which is quickly analyzable by a connected, properly algorithmed computer, which can also be used for feedback control in a designed "expert" system. The invention enables, among other things, practical and significant differentiation between physiological and pathological nystagmus.

INTERNATIONAL SEARCH REPORT

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| International application No. PCT/US04/13951 |
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A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **A61B 5/00(2006.01),5/103(2006.01)**

USPC: 600/559,587
 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. : 600/559,587,372,352,383,384,392,552,560,561,595,300,301,544,545; 128/920

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Austrailia AU-8-80817/94

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. |
|------------|--|-----------------------|
| X | US 6,159,171 A (DENSERT et al) 12 December 2000 (12.12.2000), columns 1-7. | 1-10,20-23 |
| X | US 2002/0151818 A1 (WATT et al) 17 October 2002 (17.10.2002), paragraphs 1-52. | 1-2,7-17,20-23 |
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| A | US 3,716,046 A (JANEKE) 13 February 1973 (13.02.1973), columns 1-8. | 1-23 |
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| A | US 6,045,528 A (ARENBERG et al) 04 April 2000 (04.04.2000), columns 1-41. | 1-23 |

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

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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. |
|------------|--|-----------------------|
| A | US 4,029,083 A (BAYLOR) 14 June 1977 (14.06.1977), columns 1-8. | 1-23 |
| A | US 4,014,320 A (RICHARDS) 29 March 1977 (29.03.1977), columns 1-8. | 1-23 |