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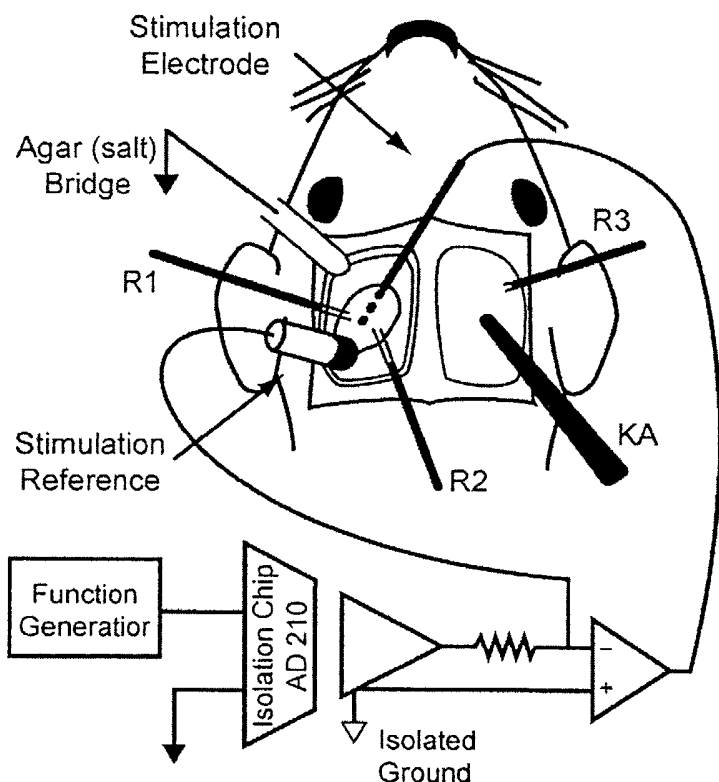
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[Continued on next page]

(54) Title: METHODS AND DEVICES FOR DETERMINING BRAIN STATE



(57) Abstract: The present invention relates to methods and devices for determining the state of a neural system. In one embodiment, a plurality of stimuli to the system can be delivered to the system, and then the resulting respective responses (R1, R2, R3) can be analyzed to determine whether the system state is static, or whether it is undergoing dynamic changes. In another aspect of the invention, a single stimulus having a plurality of components can be administered, and the responses to each component can be contrasted and compared to determine the state of the neural system. In each case, this information can be used to predict the occurrence of neural perturbations or episodes associated with a change in the state of the neural system.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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 US CL : 607/45

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. : 607/045, 002

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.
X	US 6,363,279 B1 (BEN-HAIM et al.) 26 March 2002 (26.03.2002), See column 2, line 52 - column 3, line 22; column 8, lines 1-18; column 24, lines 49-61; column 25, lines 43-48; column 26, lines 50-67.	1-23 and 25-28
Y, E	US 6,665,562 B2 (GLUCKMAN et al.) 16 December 2003 (16.12.2003), See column 2, lines 5-39.	24

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See patent family annex.

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"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
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