System and Method of Assessment of the Efficacy of Treatment of Neurological Disorders Using the Electroencephalogram

Abstract: Disclosed is a system and method of assessing the efficacy of treatment of neurological or psychological disorders. The preferred embodiment uses at least two surface electrodes to acquire EEG signals from the surface of a patient's body, and a processor for computing from the EEG signals various features and indices that are representative of the patient's neurological or psychological state. Changes in these parameters may be used to assess the efficacy of treatment and to modify the treatment to optimize the resultant patient state.
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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.

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INTERNATIONAL APPLICATION No.
PCT/US04/14039

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61N 1/18
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. : 607/45,72,73,74,116; 600/373,377,378

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base searched other than minimum documentation to the extent that such documents are included in the fields searched

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 6,459,936 B2 (FISCHELL et al.) 1 October 2002 (01.10.2002), abstract; column 3, lines 18-22 and 33-41; column 6, lines 40-44; column 14, lines 10-15 and 34-51; column 20, lines 45-51; column 21, lines 10-13; column 28, lines 30-65.</td>
<td>1-5,7,9,11,12,15-24,26,28,30,31, and 34-38</td>
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<td>6,8,10,13,14,25,27,29,32 and 33</td>
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<td>Y</td>
<td>US 6,463,328 B1 (JOHN) 8 October 2002 (08.10.2002), column 8, lines 32-60; column 9, lines 56-60; column 15, lines 37-45.</td>
<td>8,10,13,14,27,29,32 and 33</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,299,569 A (WERNICKE et al.) 5 April 1994 (05.04.1994), column 2, lines 45-49.</td>
<td>6 and 25</td>
</tr>
</tbody>
</table>

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

Date of actual completion of the international search 26 October 2004 (26.10.2004)

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