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(54) Title: ELECTRICAL TREATMENT OF MOVEMENT DISORDERS

(57) Abstract: Methods and systems for treating movement disorders are disclosed. A method in accordance with one embodiment can include determining that the movement disorder affects the patient's gait, oral functioning, and/or other functioning, and applying electrical stimulation proximate to the interhemispheric fissure, the Sylvian fissure, or between the two fissures, respectively. In another embodiment, the method can include selecting at least one neural process from among a plurality of processes sequentially carried out by a patient to cause a muscle movement in the patient (e.g., a planning process, an initiation process, and an execution process), and applying electrical stimulation to a location of the patient's brain associated with the at least one neural process.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/40777

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC: A61N 1/00(2006.01)</p> <p>USPC: 607/45,46,48,49,56,68,115,116,118 According to International Patent Classification (IPC) or to both national classification and IPC</p>																	
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) U.S. : 607/45,46,48,49,56,68,115,116,118</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)</p>																	
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <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 5,716,377 A (RISE et al) 10 February 1998 (10.02.1998), Figures 1 and 2, col. 2 and 3.</td> <td>1, 18, 19, 38</td> </tr> <tr> <td>Y</td> <td>US 6,708,064 B2 (REZAI) 16 March 2004 (16.03.2004), Figure 1, col. 3, lines 10-20; col. 12, 13, 19.</td> <td>6-7,10-12,14,16,21-22,24-28,30-32,33-37,42,49,52,64-66</td> </tr> <tr> <td>A</td> <td>US 2003/0149457 A1 (TCHENG et al.), 07 August 2003, (07.08.2003), par. 14, 45-49</td> <td>2-5,8-9,13,15,17,19,20,23,39-41,43-48,50-51,53-63,67</td> </tr> <tr> <td>A</td> <td>US 6,795,737 B2 (GIELEN et al.) 21 September 2004 (21.09.2004), col. 2, 5.</td> <td>1-67</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X ---	US 5,716,377 A (RISE et al) 10 February 1998 (10.02.1998), Figures 1 and 2, col. 2 and 3.	1, 18, 19, 38	Y	US 6,708,064 B2 (REZAI) 16 March 2004 (16.03.2004), Figure 1, col. 3, lines 10-20; col. 12, 13, 19.	6-7,10-12,14,16,21-22,24-28,30-32,33-37,42,49,52,64-66	A	US 2003/0149457 A1 (TCHENG et al.), 07 August 2003, (07.08.2003), par. 14, 45-49	2-5,8-9,13,15,17,19,20,23,39-41,43-48,50-51,53-63,67	A	US 6,795,737 B2 (GIELEN et al.) 21 September 2004 (21.09.2004), col. 2, 5.	1-67
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<p>Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201</p>		<p>Authorized officer <i>Valerie Bell-Hansford</i> Robert E Pezzuto Telephone No. 571-272-3766</p>															