Title: SYSTEMS AND METHODS FOR DETERMINING A SLEEP DISORDER BASED ON POSITIONING OF THE TONGUE

Abstract: Devices and methods are disclosed that include an external unit comprising at least one processor. The processor may be configured to receive a signal indicative of tongue movement in a subject from an implant unit implanted in the subject, determine whether the tongue movement is representative of sleep disordered breathing, generate a modulation control signal to correct the sleep disordered breathing when the at least one processor determines an occurrence of sleep disordered breathing.
before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB12/02364

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8): A61F 5/37, 5/56 (2013.01)
USPC: 128/846, 848, 860, 859

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)

IPC(8): A61F 5/37, 5/56 (2013.01)
USPC: 128/846, 848, 860, 859

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

<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 2008/0173351 A1 (SAHIN, K et al.) July 9, 2009, abstract; figure 58; paragraphs [0021], [0022], [0114], [0118], [0119], [0139], [0141], [0150], [0166], [0177], [0181], [0184]-[0189], [0191], [0194]</td>
<td>1, 5, 6, 10, 11, 15-17, 21, 25</td>
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<td>Y</td>
<td>WO 2008/048471 A2 (BOLEA, SL et al.) April 24, 2008, abstract; paragraphs [055], [056], [077], [083], [084], [0211], [0225], [0226], [0229], [0287], [0296], [0299], [0314], [0322], [0325], [0341], [0343]; figures 52A-52G</td>
<td>2-4, 7-9, 12-14, 18-20, 22-24</td>
</tr>
<tr>
<td>Y</td>
<td>WO 2007/098200 A2 (LIMA, MG et al.) August 30, 2007, page 18, line 16 to page 19, line 2</td>
<td>2-4, 7-9, 12-14, 18-20, 22-24</td>
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</table>

Further documents are listed in the continuation of Box C.

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Date of the actual completion of the international search
03 April 2013 (03.04.2013)

Date of mailing of the international search report
17 APR 2013

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