Title: BINAURAL SLEEP INDUCING SYSTEM

Abstract: By using an iterative loop of data collection, binaural tone generation/presentation, and analysis binaural tones can be introduced to induce an existing brain state to change from one associated with being awake to a state associated with being asleep. The current state of an individual's brain is determined by measuring movement and electrical activity. Using this data a binaural tone can be generated to induce the brain state to change. As the state of the brain is continually monitored the applied binaural tone is modified and applied until the desired sleep state is obtained.
Published:

— with international search report (Art. 21(3))
— 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))

Date of publication of the international search report: 13 November 2014
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61M 21/02 (2014.01)
USPC - 600/28

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) - A61B 5/00, 5/04, 5/0476, 5/0482; A61M 21/00, 21/02; G05B 13/00; G06F 3/00, 3/01 (2014.01)
USPC - 434/236; 600/26, 27, 28, 301, 544, 545; 702/19; 725/10

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

CPC - A61B 5/00, 5/04, 5/0476, 5/0482; A61M 21/00, 21/02, 2021/0005, 2021/0027, 2230/63; G05B 13/00; G06F 3/00, 3/01, 19/34, 19/3406, 19/3481 (2014.07)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Orbit, Google Patents, Google Scholar

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>
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<td>27-29, 31</td>
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Further documents are listed in the continuation of Box C.

Date of the actual completion of the international search: 18 August 2014

Date of mailing of the international search report: 05 SEP 2014

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