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[Continued on next page]

(54) Title: METHODS, DEVICES AND SYSTEMS FOR TREATING INSOMNIA BY INDUCING FRONTAL CEREBRAL HYPOTHERMIA

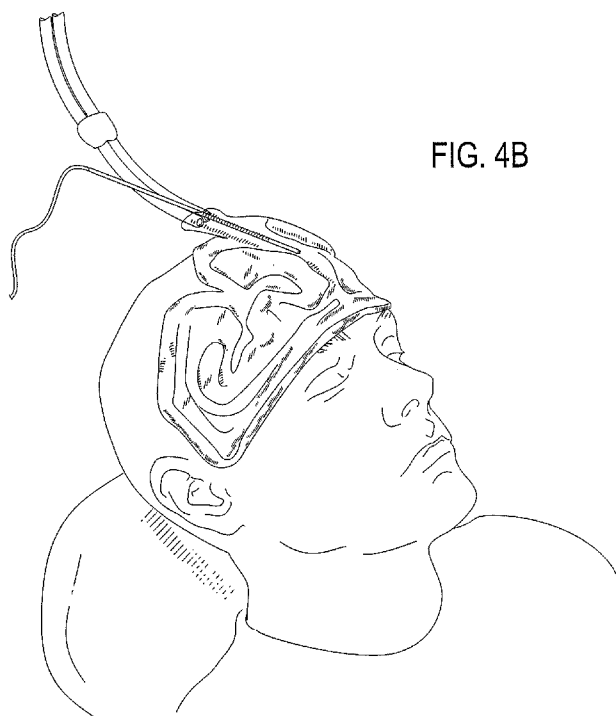


FIG. 4B

(57) Abstract: Method, systems and devices for treating insomnia by non-invasive hypothermic treatment are described. In general, these devices, systems and method enable cooling of the frontal cortex prior to and /or during sleep to enhance sleep, which may be particularly beneficial to treat insomnia.

**Declarations under Rule 4.17:**

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
- *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))*

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A. CLASSIFICATION OF SUBJECT MATTER**A61F 7/12(2006.01)i, A61B 18/02(2006.01)i, A61F 7/10(2006.01)i, A61H 39/06(2006.01)i**

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)

A61F 7/12; A61N 7/00; A61F 7/10; A61F 7/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords:insomnia, hypothermal therapy, cooling frontal cortex

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
PX	US 2011-0125238 A1 (NOFZINGER ERIC A.) 26 May 2011 See the whole document, especially Claims 1,2,13, Paragraphs [0029],[0072],[0090],[0092],[0108]	1-10
A	US20030176902 A1 (GUNN, A. et al.) 19 Sep 2003 See the whole document, especially Claims 1,13, Paragraph [0011]	1-10
A	US 05720773A A (LOPEZ-CLAROS; MARCELO ENRIQUE) 24 February 1998 See the whole document, especially Claim 1, Figures 1,4	1-10
A	US 2007-0250138 A1 (ERIC A. NOFZINGER) 25 October 2007 See the whole document, especially Figure 1, Paragraphs [0025],[0037],[0057],[0072],[0073]	1-10



Further documents are listed in the continuation of Box C.



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Date of the actual completion of the international search

27 AUGUST 2012 (27.08.2012)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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