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(81) **Designated States** *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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Published:
— *with international search report (Art. 21(3))*

(88) **Date of publication of the international search report**:
21 March 2013

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(54) **Title**: SYSTEM FOR PROVIDING TREATMENT TO A MAMMAL AND METHOD

(57) **Abstract**: Therapy system for treatment of an animate body including core body cooling. The system includes a therapy wrap and a first therapy device for exchanging heat with the body. The system may include a second therapy device for delivering another therapy. The first therapy device may include a heat transfer device, a cooling or heating source, and a control unit. The heat transfer device may include a fluid bladder and a compressive bladder. The second therapy device may be an electric stimulation device. The therapy wrap is adapted to coordinate delivery of the thermal therapy and another therapy to the animate body. The therapy wrap may also be a sleeve for mounting components of the first and second therapy devices. Also disclosed are a method of administering a temperature-controlled treatment to an anatomical body part and method of making the therapy system.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/032496

A. CLASSIFICATION OF SUBJECT MATTER

A61F 7/02(2006.01)i, A61F 7/10(2006.01)i, A61N 1/18(2006.01)i, A61B 18/02(2006.01)i, A61B 5/04(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 7/02; F25D 23/00; 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: heat transfer, cooling, wrap, bladder

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	WO 01-54635 A1 (COOLSYSTEMS, INC.) 02 August 2001. See abstract, page 10 lines 24-27, page 11 lines 5-6, page 13 lines 18-24, page 17 lines 2-14 and page 21, lines 1-10.	1-3,15,17,41 4-14,16,18-21,40,42
Y A	US 2010-0145421 A1 (C. MIKE TOMLINSON et al.) 10 June 2010. See abstract, paragraphs 0029-0030.	1-3,15,17,41 4-14,16,18-21,40,42
A	WO 02-058604 A2 (COOLSYSTEMS, INC.) 01 August 2002. See abstract, paragraphs 0020, 0021, 0024, and figure 1.	1-21,40-42
A	US 2008-0234788 A1 (PETER Z. WASOWSKI) 25 September 2008. See abstract, paragraphs 0082, 0088-0089.	1-21,40-42
A	US 2010-0161013 A1 (KEITH PATRICK HEATON) 24 June 2010. See abstract, paragraphs 0082, 0088]-0089.	1-21,40-42

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents,such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
29 NOVEMBER 2012 (29.11.2012)	**29 NOVEMBER 2012 (29.11.2012)**

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/032496

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 22-39
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 22 - 39 pertain to methods for treatment of the human body by therapy, as well as diagnostic methods, and thus relate to a subject matter which this International Searching Authority is not required, under Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required addtional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/032496

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 01-54635 A1	02.08.2001	None	
US 2010-0145421 A1	10.06.2010	None	
WO 02-058604 A2	01.08.2002	US 2002-0138033 A1	26.09.2002
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