

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 June 2008 (12.06.2008)

PCT

(10) International Publication Number
WO 2008/070853 A3

(51) International Patent Classification:

A61F 7/00 (2006.01)

(21) International Application Number:

PCT/US2007/086833

(22) International Filing Date:

7 December 2007 (07.12.2007)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/868,968 7 December 2006 (07.12.2006) US

(71) Applicant (for all designated States except US): **LIFE RECOVERY SYSTEMS HD, LLC** [US/US]; 711 Kimball Avenue, Alexandria, LA 71301 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SCHOCK, Robert B.** [US/US]; 34 Hidden Glen Drive, Sparta, NJ 07871 (US). **COTE, Marc** [US/US]; 400 Hudson Street, Cornwall, NY 12518 (US).

(74) Agents: **BRENNAN, Patrick E.** et al.; Armstrong Teasdale LLP, One Metropolitan Square, Suite 2600, St. Louis, MO 63102-2740 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

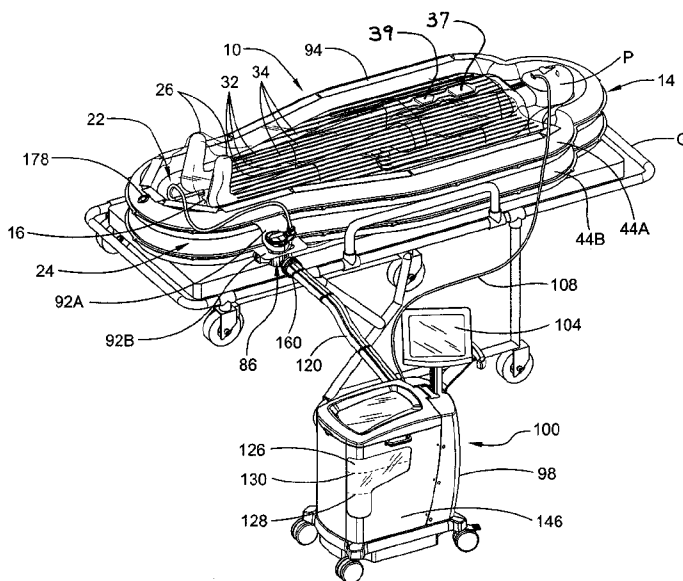
Published:

— with international search report

— with information concerning one or more priority claims considered void

[Continued on next page]

(54) Title: APPARATUS FOR ALTERING THE BODY TEMPERATURE OF A PATIENT AND ADMINISTERING DECOMPRESSION TO THE PATIENT'S TORSO



(57) Abstract: Apparatus for altering the body temperature of a patient and administering decompression to a patient's torso includes an upper member for overlying the patient's torso. The upper member has at least one inlet for directing heat transfer liquid into direct liquid contact with the patient's torso to promote heat transfer between the patient's torso and the heat transfer liquid. A decompression device is adapted for securement to the upper member for use in at least decompressing the patient's torso with the upper member interposed between the decompression device and the patient's torso. The upper member is configured to facilitate decompression of the patient's torso upon operation of the decompression device to apply a decompressive pressure to the upper member.



WO 2008/070853 A3



(88) Date of publication of the international search report:

16 October 2008

(15) Information about Correction:

Previous Correction:

see Notice of 24 July 2008

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 07/86833

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61F 7/00 (2008.04)

USPC - 607/108

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)
USPC: 607/108

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 128/205.26; 607/96,104,108

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

Delphion; Google Scholar

Search Terms Used: compression, decompression, chest, patient, cool, fluid, heat, abdomen, torso, circulate

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,490,820 A (Schock et al.) 13 February 1996 (13.02.1996), col. 5, ln 17 - col. 14, ln 13.	1-21
Y	US 2005/0080363 A1 (Jensen et al.) 14 April 2005 (14.04.2005), para [0015]-[0055].	1-21
Y	US 5,948,012 A (Mahaffey et al.) 07 September 1999 (07.09.1999), col. 3, ln 31 - col. 6, ln 67.	1-21

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

* 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 another 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

18 July 2008 (18.07.2008)

Date of mailing of the international search report

25 JUL 2008

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

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774