

(19) World Intellectual Property Organization
International Bureau



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

PCT

(10) International Publication Number
WO 2008/070164 A3

(51) International Patent Classification:
A61H 23/04 (2006.01)

(21) International Application Number:

PCT/US2007/025031

(22) International Filing Date:

6 December 2007 (06.12.2007)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

11/634,749 6 December 2006 (06.12.2006) US

(71) Applicant (for all designated States except US): **THE HOSPITAL FOR SICK CHILDREN** [CA/CA]; 555 University Avenue, Toronto, Ontario, M5G 1X8 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CALDARONE, Christopher** [US/CA]; 96 Highland Avenue, Toronto, Ontario, M4W 2A6 (CA). **REDINGTON, Andrew** [GB/CA]; 299 Russell Hill Road, Toronto, Ontario, M4V 2V7 (CA).

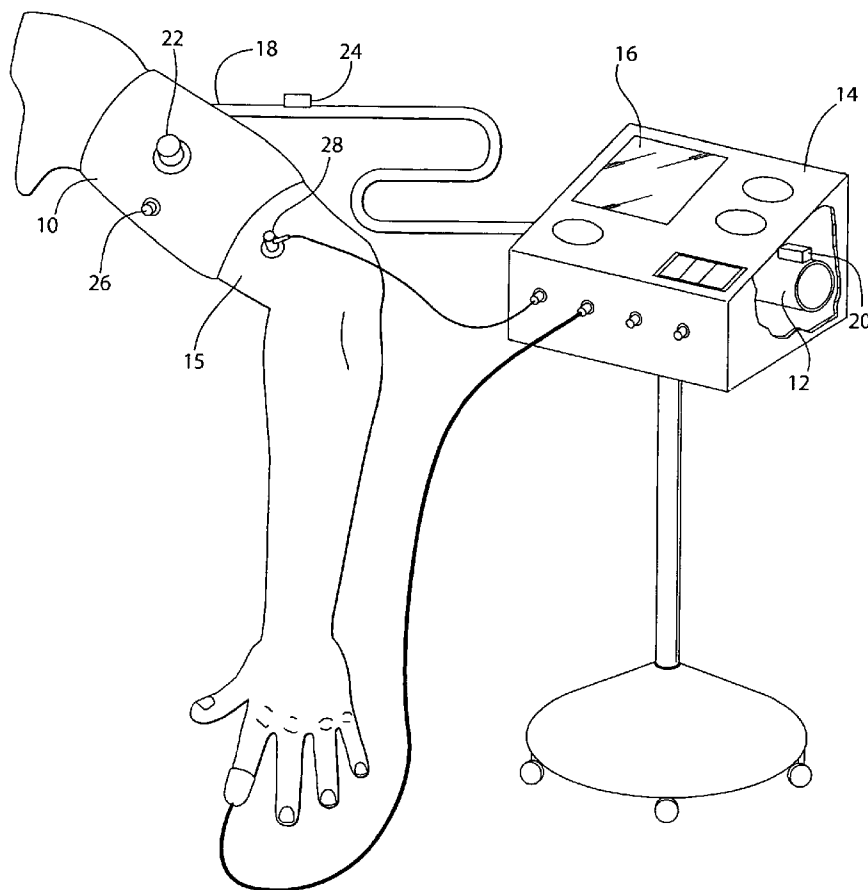
(74) Agent: **NORFLEET, Walt**; Wolf Greenfield & Sacks. P.C., Federal Reserve Plaza, 600 Atlantic Avenue, Boston, MA 02210-2206 (US).

(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,

[Continued on next page]

(54) Title: SYSTEM FOR PERFORMING REMOTE ISCHEMIC PRECONDITIONING



(57) Abstract: A system for remote ischemic preconditioning that includes a cuff, and actuator, and a controller that operates the actuator according to a treatment protocol. The treatment protocol includes a plurality of treatment cycles that each comprise cuff actuation, an ischemic duration, cuff release, and a reperfusion duration.

WO 2008/070164 A3



PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments*

Published:

— *with international search report*

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

24 July 2008

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/025031

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61H23/04

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)
A61H

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	RU 2 253 429 C (AMOSOV ET AL) 10 June 2005 (2005-06-10)	1-8, 12-18, 20-22
Y	page 2, lines 27-37 page 3, line 7 - page 4, line 10 -----	9-11
X	US 5 571 075 A (BULLARD HORACE [US]) 5 November 1996 (1996-11-05)	1,5-8, 12-18, 20-22
	column 2, lines 45-48 column 3, lines 14-25 column 4, lines 8-47 -----	
Y	US 2004/064076 A1 (BILGI JAGADISH [US]) 1 April 2004 (2004-04-01) paragraph [0015] -----	9-11

☐ 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 document 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

26 May 2008

Date of mailing of the international search report

09/06/2008

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 228Q HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Martelli, Luca

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/025031

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
RU 2253429	C	10-06-2005	NONE	
US 5571075	A	05-11-1996	WO 9817221 A1	30-04-1998
US 2004064076	A1	01-04-2004	US 2005183722 A1	25-08-2005