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(74) Agent: TUN, Richard, Y., M.; Berliner & Associates, 555 West Fifth Street, 31st Floor, Los Angeles, CA 90013 (US).

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(71) Applicant (for all designated States except US): THE REGENTS OF THE UNIVERSITY OF CALIFORNIA [US/US]; 1111 Franklin Street, Oakland, CA 94607-5200 (US).

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(72) Inventors; and

(75) Inventors/Applicants (for US only): RINEHART, Joseph, B. [US/US]; 2351 Aralia Street, Newport Beach, CA 92660 (US). CANNESON, Maxime, P. [FR/US]; 6 Mayer Court, Irvine, CA 92617 (US).

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR CLOSED-LOOP PATIENT-ADAPTIVE HEMODYNAMIC MANAGEMENT

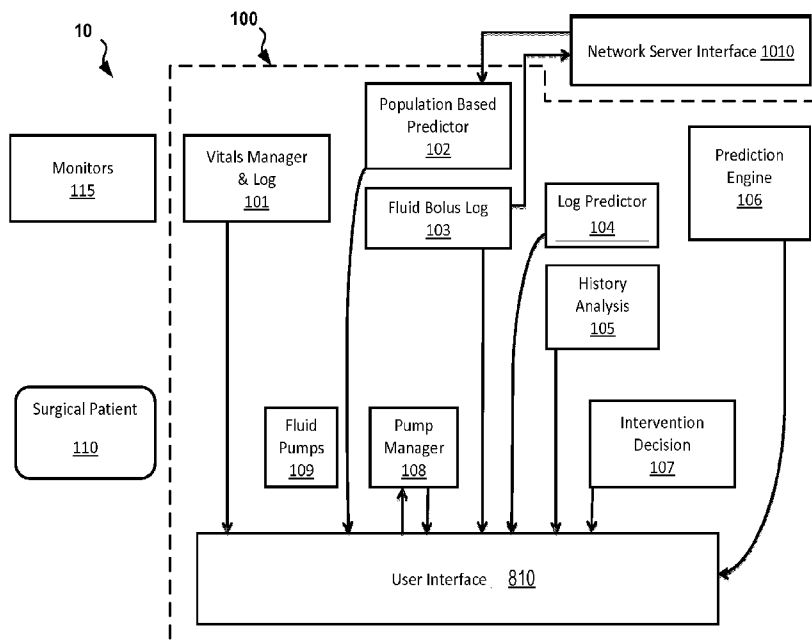


FIG. 10

(57) Abstract: A system and method for patient-adaptive hemodynamic management is described. One embodiment includes a system for hemodynamic management including transfusion, volume resuscitation with intravenous fluids, and medications, utilizing monitored hemodynamic parameters including the described dynamic predictors of fluid responsiveness, and including an intelligent algorithm capable of adaptation of the function of the device to specific patients.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/021051**A. CLASSIFICATION OF SUBJECT MATTER***A61M 5/142(2006.01)i, A61M 5/168(2006.01)i, A61B 5/02(2006.01)i, G06F 19/00(2011.01)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)

A61M 5/142; A61K 49/00; A61B 5/145; A61M 5/00; A61M 37/00; A61B 5/02; A61B 5/00

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: infusion, pump, control, fluid, hemodynamic

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2009-0326510 A1 (HAEFNER et al.) 31 December 2009 See the abstract; claim 29; paragraphs [0025] and [0030]-[0033]; and figs. 1 and 5.	1-13, 20-26, 28-33
A		14-19, 27
Y	US 2008-0194924 A1 (VALK et al.) 14 August 2008 See the abstract; claims 1 and 8; paragraphs [0046]-[0055]; and figs. 1 and 7.	1-13, 20-26, 28-33
A	US 2010-0081942 A1 (HUIKU) 01 April 2010 See claim 11; paragraphs [0023] and [0076]-[0077]; and fig. 7.	1-33
A	US 05984893 A (WARD) 16 November 1999 See the abstract; claims 1 and 10; column 4, lines 43-45 and 56-57; column 5, lines 5-7; and fig. 1.	1-33

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

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"P" document published prior to the international filing date but later than the priority date claimed

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"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

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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

LEE, Cheol Soo

Telephone No. 82-42-481-8525



INTERNATIONAL SEARCH REPORT

Information on patent family members

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PCT/US2012/021051

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009-0326510 A1	31.12.2009	None	
US 2008-0194924 A1	14.08.2008	EP 1853158 A2 WO 2006-091650 A2 WO 2006-091650 A3	14.11.2007 31.08.2006 31.08.2006
US 2010-0081942 A1	01.04.2010	None	
US 05984893 A	16.11.1999	None	