(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 March 2007 (22.03.2007)

PCT

(10) International Publication Number
WO 2007/033074 A3

(51) International Patent Classification:
A61B 5/02 (2006.01) *F16K 51/00* (2006.01)
F16K 5/00 (2006.01)

(21) International Application Number:
PCT/US2006/035302

(22) International Filing Date:
12 September 2006 (12.09.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/225,744 13 September 2005 (13.09.2005) US
11/507,238 21 August 2006 (21.08.2006) US

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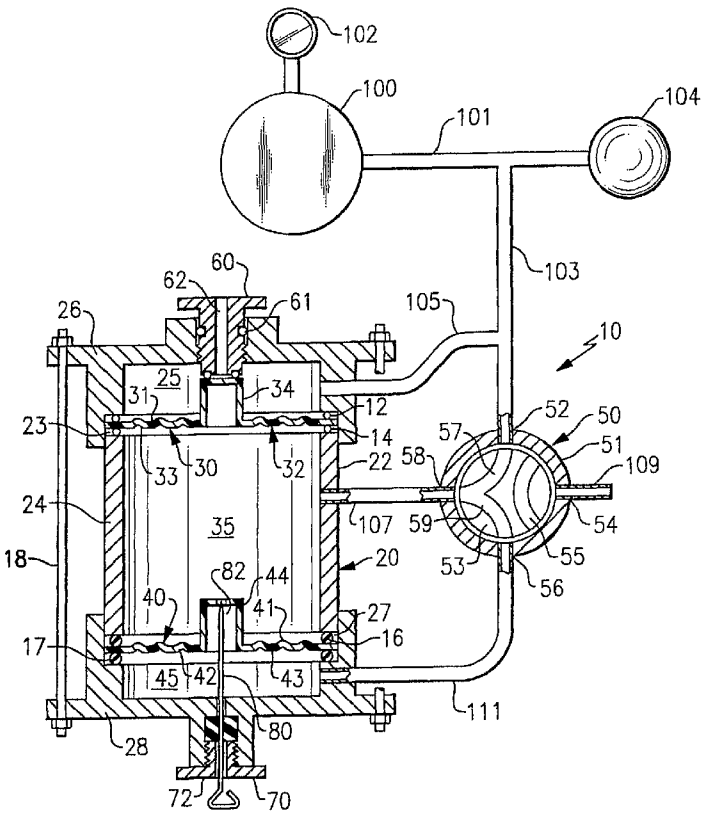
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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, 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, 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).

[Continued on next page]

(54) **Title:** BLOOD PRESSURE BLEED VALVE ASSEMBLY



(57) **Abstract:** A bleed flow valve assembly for venting air from a blood pressure cuff at relatively constant pressure decrease rate irrespective of cuff size includes a multiple chamber bleed valve and a multiple position control valve operatively associated therewith. A first end chamber is connected in pneumatic communication with the cuff and pneumatically sealed from a second central chamber by a first flexible diaphragm. A third end chamber is separated from the central chamber by a second flexible diaphragm. A variable flow area opening through the second diaphragm provides a flow path for controllably venting air from the second chamber to ambient pressure when the control valve is selectively positioned to connect the third chamber in pneumatic communication with ambient pressure. Air is vented from the cuff through the first chamber in regulated response to the pressure differential between the first chamber and the second chamber acting upon the first flexible diaphragm.

WO 2007/033074 A3

Published:

— *with international search report*

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

(88) Date of publication of the international search report:
24 May 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US06/35302

A. CLASSIFICATION OF SUBJECT MATTER
IPC: **A61B 5/02**(2006.01);**F16K 5/00**(2006.01),**51/00**(2006.01)

USPC: 251/142,304;600/498
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)
U.S. : 251/142,304;600/498

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 practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,587,974 A (LINK) 13 May 1986 (13.05.1986) entire document	1-28
A	US 5,220,925 A (HISHIDA) 22 June 1993 (22.06.1993), entire document	1-28

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Date of the actual completion of the international search	Date of mailing of the international search report
05 March 2007 (05.03.2007)	29 MAR 2007
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Form PCT/ISA/210 (second sheet) (April 2005)