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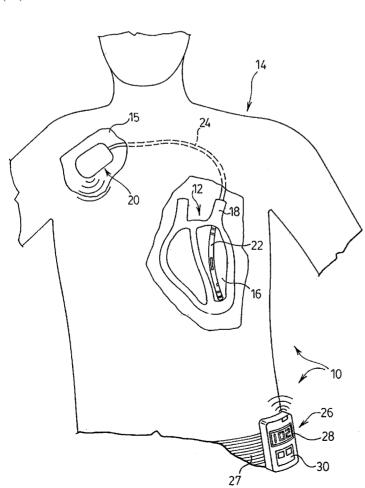
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(54) Title: IMPLANT TRANSMITTER



(57) Abstract: A monitoring system is provided that enables the monitoring of a heart in a living organism by continuously measuring both pressure and volume in a chamber of the heart, preferably the left ventricle (LV). The pressure and volume measurements are acquired using a single sensing tip and are communicated to a transmitting device to be wirelessly transmitted to a receiving device, wherein they are used to monitor the heart. The system may also incorporate a temperature measurement that can be transmitted with the volume and pressure measurement to provide further data for monitoring. The system may also extract an electrocardiogram (ECG) signal from the volume measurement. This allows the monitoring of up to four signals that can be used to determine the beat by beat state of cardiac output and any changes caused by disease or therapy. In addition to a compact design, the system may also incorporate an energy saving timing scheme that reduces the power required per acquisition cycle and thus increases the operational lifetime of the transmitting device.

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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).

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61B 5/0215 (2006.01) , A61B 5/01 (2006.01) , A61B 5/02 (2006.01) , A61B 5/0402 (2006.01) , A61B 5/042 (2006.01)

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(7): A61B 5/0215, A61B 5/01, A61B 5/02 A61B 5/0402, A61B 5/042

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

Databases: CPD (Canadian Patent Database), Delphion, Pluspat, Google

Keywords: monitoring of heart, volume, pressure, temperature, measurement, ECG signal, left ventricle (LV), diagnosis

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 409 674 (B1) 25 June 2002 (25-06-2002) Brockway et al.** see Abstract, Figures 1-9**	14-28
Y	US 6 926 674 (B2) 09 August 2005 (09-08-2005) Tenerz et al. ** see Abstract and whole document**	14-28
Y	US 6 865 419 (B2) 8 March 2005 (08-03-2005) Mulligan et al. ** see Abstract, whole document**	29
A	US 5 218 965 15 June 1993 (15-06-1993) Ring** see whole document**	1-29
A	US 6 740 033 (B1) 25 May 2004 (25-05-2004) Olejniczak et al. ** see whole document**	1-29

[]	Further documents are listed in the continuation of Box C.] See patent family annex.	
* "A" "E"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date	later document published after the international filin date and not in conflict with the application but cite the principle or theory underlying the invention document of particular relevance; the claimed inven- considered novel or cannot be considered to involve step when the document is taken alone	
"L" "O" "P"	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) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	document of particular relevance; the claimed inven considered to involve an inventive step when the do combined with one or more other such documents, s being obvious to a person skilled in the art document member of the same patent family	ion cannot be nument is ach combination
Date	e of the actual completion of the international search	te of mailing of the international search re	ort

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INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2006/001358

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of the 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 [X] Claim Nos. : 1-13 because they relate to subject matter not required to be searched by this Authority, namely: a method of treatment of the human body by an invasive procedure, more specifically the insertion of a sensing tip into a chamber of the heart as well as a the implantation of a transmitting device into a portion of a said living organism 2. [] Claim 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: [] Claim Nos. : because they are dependant 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: Claims 1-28 are directed to a method and system for monitoring a heart of a living organism Claim 29 is directed to a method for obtaining an intracardiac electrocardiogram signal 1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. [X] As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees. 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 claim 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 claim 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/CA2006/001358

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