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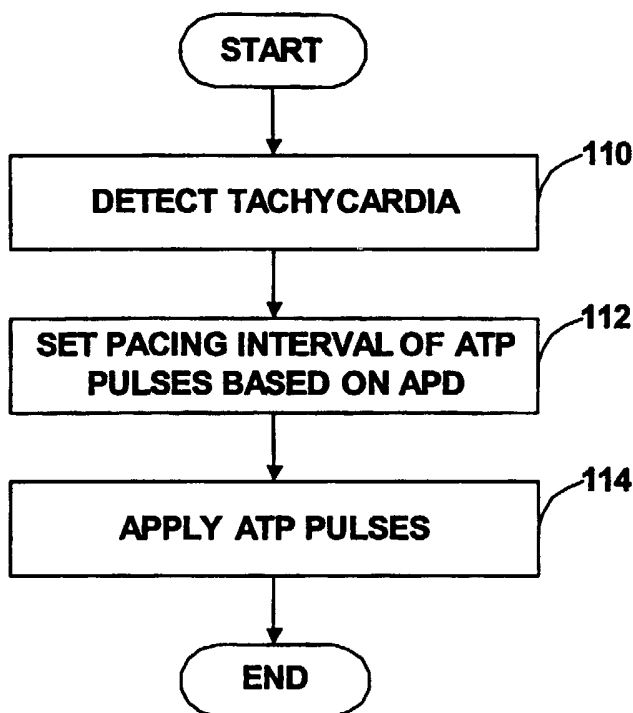
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**Declaration under Rule 4.17:**

— as to applicant's entitlement to apply for and be granted  
a patent (Rule 4.17(ii)) for the following designations 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,  
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[Continued on next page]

(54) Title: HISTORY-DEPENDENT PACING INTERVAL DETERMINATION FOR ANTTACHYCARDIA PACING



(57) Abstract: A method and device (10) for delivering anti-tachycardia pacing pulses that may be used to treat episodes of atrial or ventricular tachycardia. Episodes of atrial or ventricular tachycardia can occur while the heart is at a normal rhythm or an accelerated rhythm. The method and device (10) is directed to determining an estimate of action potential duration of a heart (12) that experiences episodes of atrial or ventricular tachycardia for use in determining a pacing interval (112) for anti-tachycardia pacing pulses (114) that may more effectively terminate the tachycardia.

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**INTERNATIONAL SEARCH REPORT**

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US2004/013817

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 A61N1/362		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61N		
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, WPI Data		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 280 502 A (BAKER JR ROSS G ET AL) 28 July 1981 (1981-07-28)	12-14, 22-24
Y	column 3, paragraphs 8,9 column 4, paragraph 3	15-17
X	US 4 587 970 A (EVANS ROBERT ET AL) 13 May 1986 (1986-05-13)	12-14, 18-21, 25,29
Y	column 2, paragraphs 3,4 column 3, line 15 - line 43	26-28
Y	US 4 577 633 A (WAXMAN MENASHE B ET AL) 25 March 1986 (1986-03-25)	15,16, 26,27
Y	column 12, paragraph 1	
Y	US 2003/060724 A1 (LIN DONGPING ET AL) 27 March 2003 (2003-03-27)	17,28
	abstract	
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in 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  22 October 2004		Date of mailing of the international search report  02/11/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  Edward, V

INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/013817

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 880 005 A (PLESS BENJAMIN D ET AL) 14 November 1989 (1989-11-14) the whole document -----	12-29
A	US 6 466 819 B1 (WEISS INGO) 15 October 2002 (2002-10-15) the whole document -----	12-29
A	US 6 360 126 B1 (MIKA YUVAL ET AL) 19 March 2002 (2002-03-19) the whole document -----	12-29

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2004/013817

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of 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.  Claims Nos.: 1-11  
because they relate to subject matter not required to be searched by this Authority, namely:  
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
2.  Claims 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:
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box 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:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
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 claims 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 claims Nos.:

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/US2004/013817

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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