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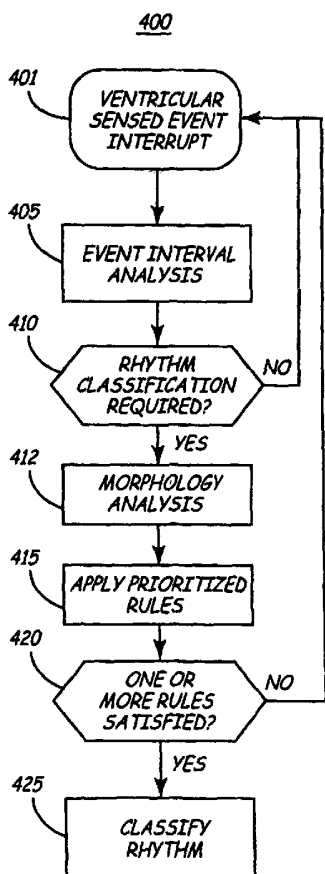
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G06F 17/00, A61N 1/39
- (21) International Application Number: PCT/US02/40014 (74) Agents: **SOLDNER, Michael, C.** et al.; 710 Medtronic Parkway NE, Minneapolis, MN 55432-5601 (US).
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- (71) Applicant: **MEDTRONIC, INC.** [US/US]; LC 340, 710 Medtronic Parkway, Minneapolis, MN 55432 (US). (88) Date of publication of the international search report: 7 August 2003
- (72) Inventors: **BROWN, Mark, I.**; 10 Buffalo road, north Oaks, MN 55127 (US). **GILLBERG, Jeffrey, M.**; 155 107th Lane Northwest, Coon Rapids, MN 55448 (US). 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.

(54) Title: DUAL CHAMBER METHOD AND APPARATUS FOR DIAGNOSIS AND TREATMENT OF ARRHYTHMIAS



(57) Abstract: A method and apparatus are provided for improving the detection of certain cardiac rhythms by combining dual chamber interval-related detection methods with electrogram morphology analysis. A prioritized set of rules are defined wherein each rule is directed at identifying a particular arrhythmia or type of arrhythmia. Each rule includes clauses that may be related to sensed event intervals and interval patterns and at least one rule includes at least one clause relating to the EGM morphology.

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INTERNATIONAL SEARCH REPORT

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PCT/US 02/40014

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61N1/362 G06F17/00 A61N1/39

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)

IPC 7 A61N G06F A61B

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 69517 A (MEDTRONIC INC) 23 November 2000 (2000-11-23) the whole document ---	1-26
X	EP 0 469 817 A (TELECTRONICS NV) 5 February 1992 (1992-02-05) the whole document ---	1
A		2, 15, 16
X	US 6 272 377 B1 (KENKNIGHT BRUCE H ET AL) 7 August 2001 (2001-08-07) column 10, line 4 -column 12, line 59 ---	1
A	EP 1 112 756 A (PACESETTER INC) 4 July 2001 (2001-07-04) the whole document ---	1-26
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Patent family members are listed in annex.

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PCT/US 02/40014

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