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(71) Applicant: **MEDTRONIC PHYSIO CONTROL MANUFACTURING CORP.** [US/US]; 11811 Willows Road NE, Redmond, WA 98052-1013 (US).
(72) Inventors: **STICKNEY, Ronald, E.**; 23014 - 102nd Place West, Edmonds, WA 98020 (US). **TAYLOR, James, W.**; 3525 Sahalee Drive West, Sammamish, WA 98074 (US). **O'HEARN, Patricia**; P.O. Box 1283, Mercer Island, WA 98040 (US). **JAYNE, Cynthia, P.**; 5524 - 161st Place NE, Redmond, WA 98052 (US). **LANK, Paula**; 1111 N 36th Street, Renton, WA 98056 (US). **HAMPTON, David, R.**; 18130 NE 154th Street, Woodinville, WA 98072 (US).

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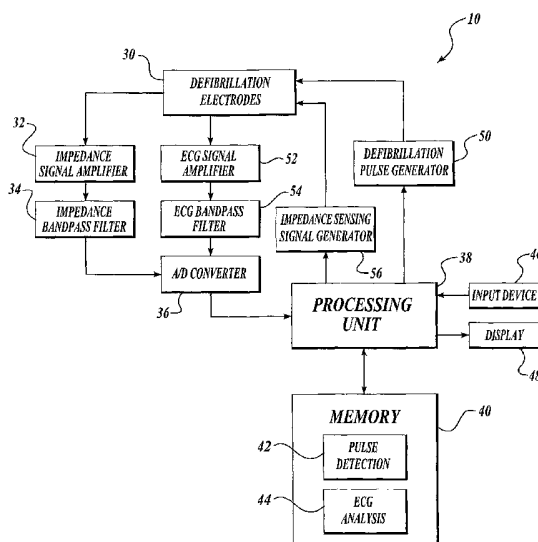
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(74) Agent: **LORENZ, Timothy, J.**; Ingrassia, Fisher & Lorenz, Suite 325, 7150 E. Camelback Road, Scottsdale, AZ 85251 (US).

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: PULSE DETECTION METHOD AND APPARATUS USING PATIENT IMPEDANCE



(57) Abstract: The presence of a cardiac pulse in a patient is determined by evaluating fluctuations in an electrical signal that represents a measurement of the patient's transthoracic impedance. Impedance signal data obtained from the patient is analyzed for a feature indicative of the presence of a cardiac pulse. Whether a cardiac pulse is present in the patient is determined based on the feature in the impedance signal data. Electrocardiogram (ECG) data may also be obtained in time coordination with the impedance signal data. Various applications for the pulse detection of the invention include detection of PEA and prompting PEA-specific therapy, prompting defibrillation therapy and/or CPR, and prompting rescue breathing depending on detection of respiration.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61B 05/00
 US CL : 600/500

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. : 600/500, 547; 600/9

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 none

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 none

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US, 5,776,071, A (Inukai et al) 07 JULY 1998, see entire document	1-52
A	US, 4,562,843, A (Djordjevich et al) 07 January 1986, see entire document.	1-52
A	US, 4,951,679, A (Harada) 28 August 1990, see entire document.	1-52
A	US, 5,404,877, A (Nolan et al) 11 April 1995, see entire document.	1-52

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 Commissioner for Patents
 P.O. Box 1450
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Facsimile No. (703)305-3230

Authorized officer

Robert L. Nassar

Telephone No. (703) 308-0858