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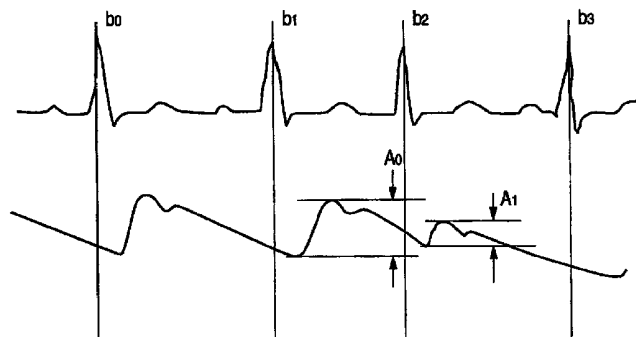
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(54) **Patient monitoring apparatus**

(57) An electrocardiogram signal derived from electrocardiogram measuring means 1 and a pulse signal derived from pulse-wave measuring means 2 are applied to a CPU 30. The CPU 30 processes the cardiogram signal to detect a QRS wave signal, and processes the pulse signal to detect the amplitude of the pulse signal. The CPU 30 judges whether or not the QRS wave is caused by a ventricular premature contraction. If two QRS waves, not caused by ventricular premature contraction, occurs successively, and the CPU 30 judges if  $A_0 \times k > A_1$ . The CPU 30 judges that a supraventricular extrasystole is occurred. Here,  $A_0$  is an amplitude of the first QSR wave;  $A_1$  is an amplitude of the second QSR wave; and  $k$  is a preset value,  $0 < k < 1$ .

**FIG. 6**



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EUROPEAN SEARCH REPORT

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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A	US 5 033 472 A (SATO TORU ET AL) 23 July 1991 (1991-07-23) * column 3, line 4 - column 4, line 25; claims; figures * ---	1-3	TECHNICAL FIELDS SEARCHED (Int.Cl.6)  A61B
A	US 4 181 135 A (CANNON ROBERT L III ET AL) 1 January 1980 (1980-01-01) * abstract; claims * ---	1-3	
A	CHANG W H ET AL: "PATTERN RECOGNITION TECHNIQUE TO QRS COMPLEX CLASSIFICATIONS" PROCEEDINGS OF THE ANNUAL INTERNATIONAL CONFERENCE OF THE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, US, NEW YORK, IEEE, vol. CONF. 11, page 32-33 XP000129185 * the whole document * -----	1-3	
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	20 January 2000	Manschot, J	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT  
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