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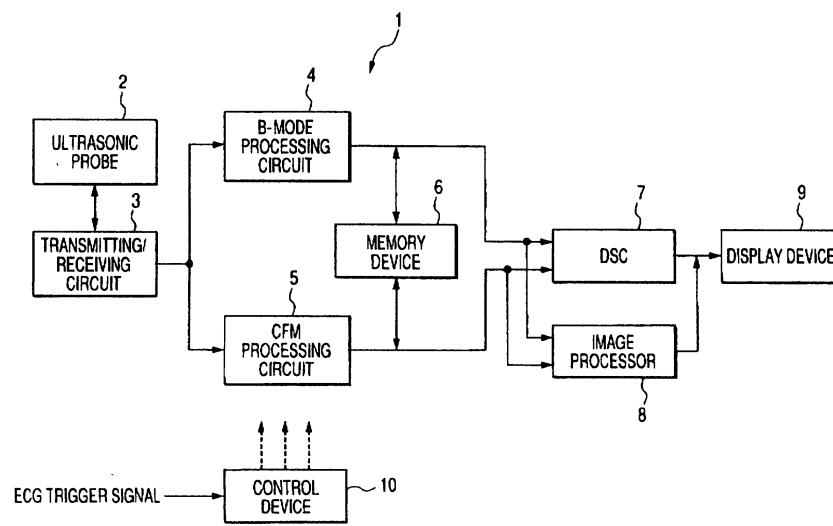
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(54) Apparatus for obtaining ultrasonic image and method of obtaining ultrasonic image

(57) A transmitting/receiving circuit drives an ultrasonic probe in accordance with a trigger signal based on an electrocardiographic waveform under the control of a control device so as to scan a plurality of regions, and obtains scan data for each region. During the scanning, the transmitting/receiving circuit causes the ultrasonic probe to scan the respective regions so that scan data in which time phases of the electrocardiographic waveform substantially coincide are obtained in the vicinities

of the boundary between at least two adjacent regions among the plurality of regions. That is, in adjacent regions, the transmitting/receiving circuit causes the ultrasonic probe to scan the respective regions in the main or sub-scanning directions set to be reverse to each other. Further, an image processor generates ultrasonic image data of the range in which the plurality of regions are joined, on the basis of the scan data obtained by starting scanning at the same time phase.

FIG. 7





DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	US 2004/215077 A1 (WITT JEROME F [US] ET AL) 28 October 2004 (2004-10-28) * paragraphs [0042], [0045], [0048], [0051] *	1-13 -----	INV. A61B8/14
			TECHNICAL FIELDS SEARCHED (IPC)
			A61B G01S
2	The present search report has been drawn up for all claims		
	Place of search	Date of completion of the search	Examiner
	The Hague	5 April 2007	Knüpling, Moritz
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	
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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 06 01 4698

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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US 2004215077	A1 28-10-2004	NONE	

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	用于获得超声图像的设备和获得超声图像的方法		
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外部链接	Espacenet		

摘要(译)

发送/接收电路在控制装置的控制下根据基于心电图波形的触发信号驱动超声波探头，以扫描多个区域，并获得每个区域的扫描数据。在扫描期间，发送/接收电路使超声波探头扫描各个区域，从而在多个中的至少两个相邻区域之间的边界附近获得心电图波形的时间相位基本上重合的扫描数据。也就是说，在相邻区域中，发送/接收电路使超声波探头扫描设置为彼此相反的主扫描方向或副扫描方向上的各个区域。此外，图像处理器基于通过在相同时间相位开始扫描获得的扫描数据，生成多个区域被接合的范围的超声图像数据。

FIG. 7

