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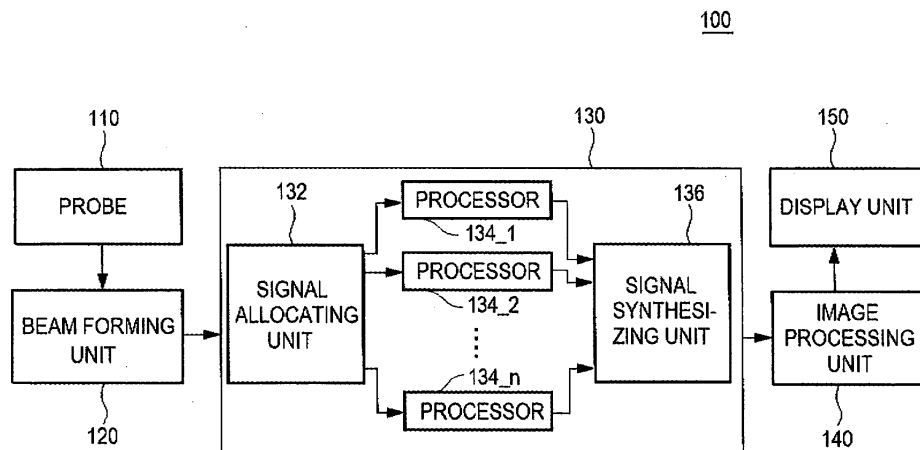
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(54) **Ultrasound system and method of forming ultrasound image signals with multiprocessing**

(57) The present invention relates to an ultrasound system. The ultrasound system comprises, a probe for transmitting an ultrasound beam along a plurality of scan lines in a target object and output receive signals based on ultrasound echoes reflected from the target object; a beam forming unit for applying delays to the receive signals and sum the delayed receive signals to thereby form scan line signals corresponding to the respective scan

lines; a multiprocessing unit including a plurality of processors, each being configured to individually process a part of the scan line signals to output sub-image signals, the multiprocessing unit being configured to synthesize the sub-image signals to output ultrasound image signals corresponding to one image frame; and an image processing unit for performing an image processing upon the ultrasound image signals for display.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number  
EP 08 02 2483

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 00/31634 A1 (GE ULTRASOUND ISRAEL LTD [IL]) 2 June 2000 (2000-06-02) * abstract * * page 4, line 1 - page 4, line 10 * * page 7, line 1 - page 19, line 26 * * page 21, line 6 - page 21, line 25 * * claims * -----	1-9	INV. G06F19/00 A61B8/14
X	US 5 709 209 A (FRIEMEL BARRY [US] ET AL) 20 January 1998 (1998-01-20) * abstract * * examples 4-6,8 * * column 2, line 41 - column 4, line 56 * * column 6, line 11 - column 13, line 21 * -----	1-9	
X	US 5 528 302 A (BASOGLU CHRISTOPHER H [US] ET AL) 18 June 1996 (1996-06-18) * abstract * * figures 3-7 * * column 1, line 66 - column 3, line 21 * * column 4, line 53 - column 6, line 29 * * column 8, line 1 - column 8, line 30 * * column 9, line 55 - column 10, line 46 * * claims 1,2 * -----	1-9	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC) G06F A61B G06T
1	Place of search The Hague	Date of completion of the search 5 June 2013	Examiner Abbing, Ralf
CATEGORY OF CITED DOCUMENTS 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		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.**

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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.

05-06-2013

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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)	超声系统和多处理形成超声图像信号的方法		
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其他公开文献	EP2075723A2		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

超声系统技术领域本发明涉及超声系统。超声系统包括：探头，用于沿目标对象中的多个扫描线发送超声波束；以及基于从目标对象反射的超声回波输出接收信号；波束形成单元，用于对接收信号施加延迟，并对延迟的接收信号求和，从而形成对应于各扫描线的扫描线信号；多处理单元，包括多个处理器，每个处理器被配置为单独处理扫描线信号的一部分以输出子图像信号，多处理单元被配置为合成子图像信号以输出对应于一个图像的超声图像信号帧；图像处理单元，用于对超声图像信号进行图像处理以进行显示。

FIG. 1

