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(54) **Ultrasound imaging apparatus and control method for same**

(57) Provided is an ultrasound imaging apparatus including elements (002) with which an acoustic wave is transmitted to and received from an object and converted into a plurality of received signals, a processor (007) that acquires a power intensity signal of the inside of the object, and a corrector (008) that corrects the power intensity signal, the processor (007) being configured to calculate correlation values of frequency components, per-

form frequency average processing on a correlation matrix that is a set of the plurality of calculated correlation values to acquire a first power intensity signal, and reduce variance of elements in the diagonal direction of the correlation matrix to acquire a second power intensity signal, and the corrector (008) being configured to output a power intensity signal subjected to correction processing.

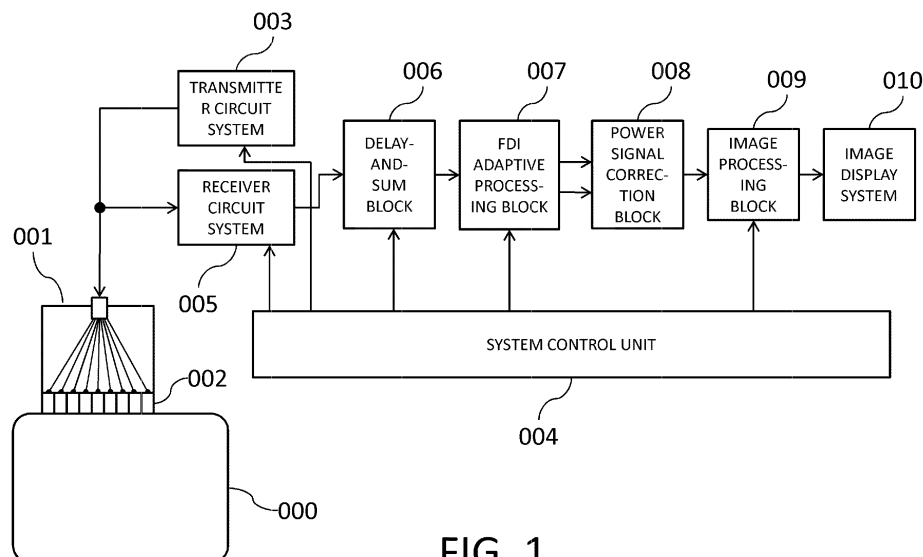


FIG. 1



EUROPEAN SEARCH REPORT

Application Number
EP 14 15 0397

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y	HIROFUMI TAKI ET AL: "High resolution medical acoustic vascular imaging using frequency domain interferometry", THE NINTH IASTED INTERNATIONAL CONFERENCE ON VISUALIZATION, IMAGING AND IMAGE PROCESSING (VIIP 2009), 13 July 2009 (2009-07-13), pages 7-12, XP055033364, Cambridge, UK	1,4-8,11	INV. G01S7/52 G01S15/89 A61B8/08
A	* abstract; figures 2, 6 * * sections 2.1, 2.2, 2.3, 3.2 *	2,3,9,10	
Y,D	JP 2010 183979 A (UNIV KYOTO; CANON KK) 26 August 2010 (2010-08-26)	1,4-8,11	
A	* abstract; figure 2 * * paragraphs [0029] - [0031], [0045] *	2,3,9,10	
A	TANIGAWA S ET AL: "Direction-of-arrival estimation of speech using virtually generated multichannel data from two-channel microphone array", ELECTRONICS & COMMUNICATIONS IN JAPAN, PART III - FUNDAMENTALELECTRONIC SCIENCE, WILEY, HOBOKEN, NJ, US, vol. 86, no. 2, PART 03, February 2003 (2003-02), pages 33-42, XP001132384, ISSN: 1042-0967, DOI: 10.1002/ECJC.10038 * figure 2 * * chapter 2.2.3, first and second paragraph *	1-3,6, 8-10	TECHNICAL FIELDS SEARCHED (IPC) G01S
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 14 January 2015	Examiner Knoll, Bernhard
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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EUROPEAN SEARCH REPORT

Application Number
EP 14 15 0397

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	PURSWANI N ET AL: "Active cancellation of probing in the presence of multiple coherent desired radar sources", APPLIED ELECTROMAGNETICS CONFERENCE (AEMC) 2009, 14 December 2009 (2009-12-14), pages 1-4, XP031898065, DOI: 10.1109/AEMC.2009.5430694 ISBN: 978-1-4244-4818-0 * chapter II.B. * -----	1-3,6, 8-10	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 14 January 2015	Examiner Knoll, Bernhard
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.**

EP 14 15 0397

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
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14-01-2015

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EPO FORM P0459

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

专利名称(译)	超声成像设备及其控制方法		
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申请号	EP2014150397	申请日	2014-01-08
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IPC分类号	G01S7/52 G01S15/89 A61B8/08		
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优先权	2013010410 2013-01-23 JP		
其他公开文献	EP2759846B1 EP2759846A2		
外部链接	Espacenet		

摘要(译)

提供一种超声成像设备，包括：元件（002），声波被发送到物体并从物体接收并被转换成多个接收信号；处理器（007），其获取物体内部的功率强度信号以及校正功率强度信号的校正器（008），处理器（007）被配置为计算频率分量的相关值，对作为多个计算的相关值的集合的相关矩阵执行频率平均处理以获取第一功率强度信号，并且减小相关矩阵的对角线方向上的元素的方差以获取第二功率强度信号，并且校正器（008）被配置为输出经过校正处理的功率强度信号。

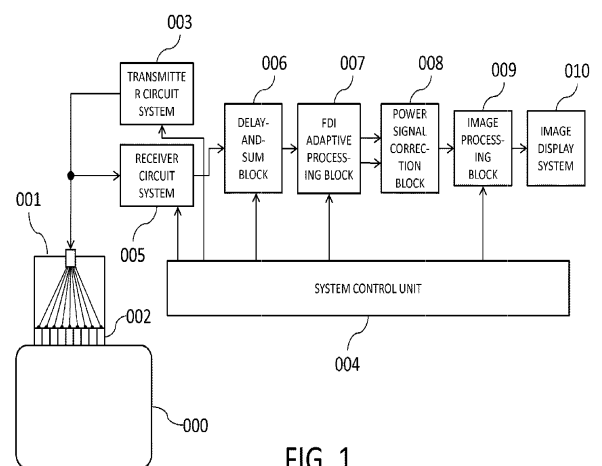


FIG. 1