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(71) Applicant: **Samsung Electronics Co., Ltd.**
Gyeonggi-do 443-742 (KR)

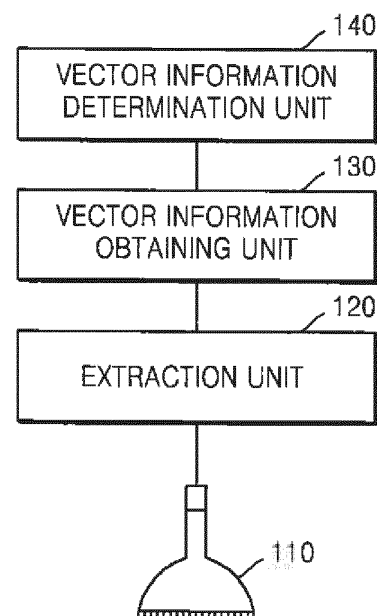
(72) Inventors:
• **Shim, Hwan**
Yongin-si (KR)
• **Lim, Hyung-joon**
Seoul (KR)
• **Cheon, Byeong-geun**
Anyang-si (KR)
• **Kim, Young-tae**
Seongnam-si (KR)

(74) Representative: **Waddington, Richard**
Appleyard Lees
15 Clare Road
Halifax Yorkshire HX1 2HY (GB)

(54) **Ultrasound apparatus and method of generating ultrasound image**

(57) A method of generating an ultrasound image includes transmitting an ultrasound signal to a predetermined point included in an object and receiving at least three response signals reflected from the predetermined point; extracting a plurality of response signal pairs by combining the received at least three response signals two-by-two; obtaining a plurality of pieces of prediction vector information, each of the pieces of prediction vector information indicating a prediction velocity magnitude and a prediction velocity direction of the predetermined point, based on reception angles and Doppler frequencies of the response signals included in the plurality of response signal pairs; and determining vector information indicating a velocity magnitude and a velocity direction of the predetermined point, based on the plurality of pieces of prediction vector information.

FIG. 2



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EUROPEAN SEARCH REPORT

Application Number
EP 13 15 5425

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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Y	* page 138, right-hand column, paragraph 4 - page 139, right-hand column, paragraph 1 * * page 141, right-hand column, paragraph 2 - page 142, left-hand column, paragraph 1; figures 3,5 *	4-7, 11-14	
X	----- DUNMIRE B ET AL: "Cross-beam vector Doppler ultrasound for angle-independent velocity measurements", ULTRASOUND IN MEDICINE AND BIOLOGY, NEW YORK, NY, US, vol. 26, no. 8, 1 October 2000 (2000-10-01), pages 1213-1235, XP004295674, ISSN: 0301-5629, DOI: 10.1016/S0301-5629(00)00287-8	1-3, 8-10,15	TECHNICAL FIELDS SEARCHED (IPC) A61B G01S
A	* page 1223, right-hand column, paragraph 2 - paragraph 3 * * page 1218, left-hand column, paragraph 3 - right-hand column, paragraph 1 * * page 1227, left-hand column, paragraph 3 *	5,6,12, 13	
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 31 July 2013	Examiner Daoukou, Eleni
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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Application Number
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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)
X	BUROV V A ET AL: "Reconstruction of the distribution pattern for the bloodstream velocity vector in the acoustic tomography procedure", ACOUSTICAL PHYSICS, NAUKA/INTERPERIODICA, MO, vol. 52, no. 5, 1 September 2006 (2006-09-01), pages 518-532, XP019411966, ISSN: 1562-6865, DOI: 10.1134/S1063771006050046 * page 523, right-hand column, paragraph 3 - page 524, right-hand column, paragraph 1; figure 1 * -----	1,8,15	TECHNICAL FIELDS SEARCHED (IPC)
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 31 July 2013	Examiner Daoukou, Eleni
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
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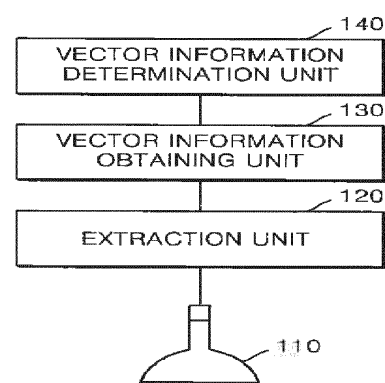
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专利名称(译)	超声设备和产生超声图像的方法		
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[标]申请(专利权)人(译)	三星电子株式会社		
申请(专利权)人(译)	SAMSUNG ELECTRONICS CO. , LTD.		
当前申请(专利权)人(译)	SAMSUNG ELECTRONICS CO. , LTD.		
[标]发明人	SHIM HWAN LIM HYUNG JOON CHEON BYEONG GEUN KIM YOUNG TAE		
发明人	SHIM, HWAN LIM, HYUNG-JOON CHEON, BYEONG-GEUN KIM, YOUNG-TAE		
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代理机构(译)	WADDINGTON , RICHARD		
优先权	61/600062 2012-02-17 US 1020120075171 2012-07-10 KR		
其他公开文献	EP2628449B1 EP2628449A2		
外部链接	Espacenet		

摘要(译)

产生超声图像的方法包括将超声信号发送到包括在对象中的预定点并接收从预定点反射的至少三个响应信号;通过将所接收的至少三个响应信号2×2组合来提取多个响应信号对;基于多个响应中包括的响应信号的接收角度和多普勒频率,获得多条预测矢量信息,每条预测矢量信息指示预定点的预测速度幅度和预测速度方向信号对;基于所述多条预测矢量信息,确定指示所述预定点的速度大小和速度方向的矢量信息。

FIG. 2



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