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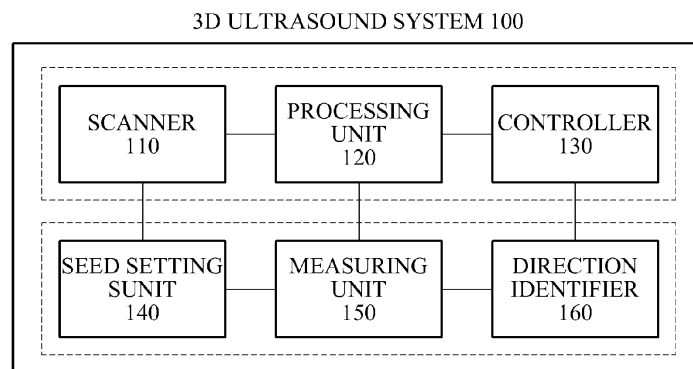
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(54) **Three-dimensional (3D) ultrasound system for scanning object inside human body and method for operating 3D ultrasound system**

(57) Provided is a three-dimensional (3D) ultrasound system and a 3D ultrasound system operating method that may obtain 3D ultrasound data with respect to an object inside a human body to determine an accurate sagittal view. The 3D ultrasound system may include a scanner to generate ultrasound data including image data generated by scanning an object inside a human body,

a processing unit to detect a center point of the object from the generated ultrasound data, and to generate, on the ultrasound data, a virtual plane on which the detected center point is placed, and a controller to rotate the ultrasound data based on the image data included in the virtual plane and to determine a sagittal view with respect to the object.

FIG. 1





EUROPEAN SEARCH REPORT

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EP 11 15 0363

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	CHUNG B L ET AL: "The application of three-dimensional ultrasound to nuchal translucency measurement in early pregnancy (10-14 weeks): a preliminary study", ULTRASOUND IN OBSTETRICS AND GYNECOLOGY, JOHN WILEY & SONS LTD, GB vol. 15, no. 2 1 February 2000 (2000-02-01), pages 122-125, XP002612511, ISSN: 0960-7692, DOI: 10.1046/J.1469-0705.2000.00052.X Retrieved from the Internet: URL:http://onlinelibrary.wiley.com/doi/10.1046/j.1469-0705.2000.00052.x/pdf [retrieved on 2010-12-01]	1,7,8, 10,11	INV. G01S15/89 G01S7/52 A61B8/08 G06T7/60 G06T19/00
Y	* abstract; figures 4, 7 * * page 122, right-hand column, line 7 - line 18 * * page 122, right-hand column, line 35 - page 123, left-hand column, line 16 * * page 123, right-hand column, line 11 - page 124, left-hand column, line 2 *	2-6,9, 12-15	TECHNICAL FIELDS SEARCHED (IPC) G01S A61B G06T
Y	US 2008/188748 A1 (SONEK JIRI D [US] ET AL) 7 August 2008 (2008-08-07) * abstract * * paragraph [0018] - paragraph [0023] *	2,3,9, 12,13	
Y	US 2007/081705 A1 (CARNEIRO GUSTAVO [US] ET AL) 12 April 2007 (2007-04-12) * abstract * * paragraph [0055] - paragraph [0057] *	4-6,14, 15	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 5 September 2013	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 11 15 0363

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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US 2007081705 A1	12-04-2007	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)	用于扫描人体内物体的三维 (3D) 超声系统和操作三维超声系统的方法		
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其他公开文献	EP2365356A2 EP2365356B1		
外部链接	Espacenet		

摘要(译)

提供了一种三维 (3D) 超声系统和3D超声系统操作方法，其可以获得关于人体内的对象的3D超声数据，以确定准确的矢状视图。3D超声系统可以包括：扫描仪，用于生成超声数据，包括通过扫描人体内的对象生成的图像数据;处理单元，用于从生成的超声数据中检测对象的中心点，以及生成超声数据，其上放置检测到的中心点的虚拟平面，以及基于包括在虚拟平面中的图像数据旋转超声波数据的控制器，并确定相对于对象的矢状视图。

FIG. 1

