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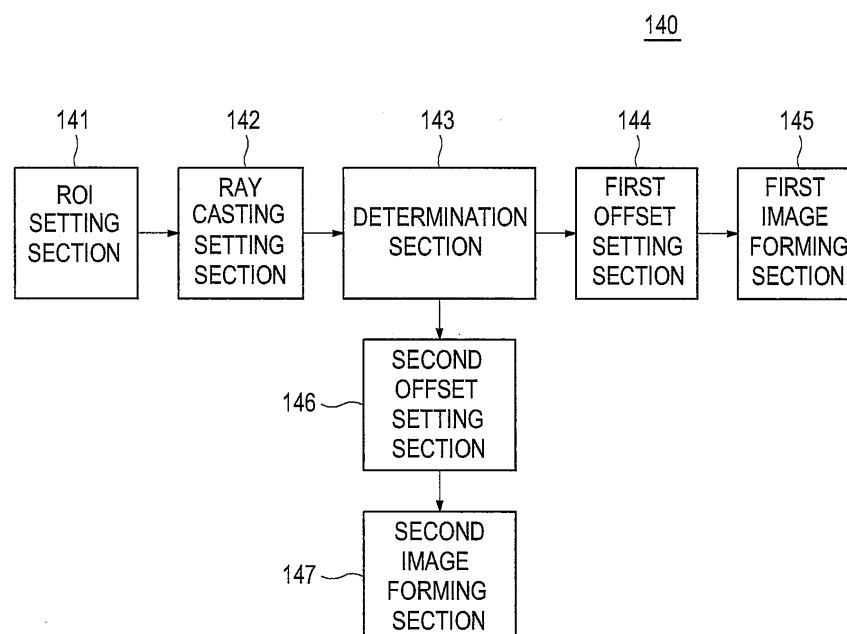
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(54) **Ultrasound system and method for rendering volume data**

(57) There is disclosed an embodiment for volume data rendering. A first processor forms volume data by using a plurality of ultrasound data. A user interface coupled to the first processor receives region of interest (ROI) setting information including a size and a position of the ROI. A second processor coupled to the first processor sets a plurality of sampling start points along edges of

the volume data, a plurality of sampling points and a ray-casting direction on the volume data based on the ROI setting information. The GPU is configured to move sampling start points positioned at an inside or outside of the ROI to be positioned at the ROI to render the volume data.

FIG. 3





EUROPEAN SEARCH REPORT

 Application Number
 EP 10 16 0999

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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	US 2008/262355 A1 (YAO BIN [CN] ET AL) 23 October 2008 (2008-10-23) * paragraph [0003] * * paragraph [0019] - paragraph [0021] * * paragraph [0060] * * paragraph [0070] - paragraph [0086] *	1-14	INV. G06T15/00
X	Markus Hadwiger ET AL: "Course Notes Advanced Illumination Techniques for GPU-Based Volume Raycasting", 10 December 2008 (2008-12-10), pages 1-166, XP055337742, Singapore Retrieved from the Internet: URL: http://www.voreen.org/files/sa08-course-notes_1.pdf [retrieved on 2017-01-23] * paragraph [0002] - paragraph [2.3.1] *	1-14	
A	US 6 280 387 B1 (DEFORGE CHRISTIAN [US] ET AL) 28 August 2001 (2001-08-28) * the whole document *	1-14	TECHNICAL FIELDS SEARCHED (IPC) G06T
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 26 January 2017	Examiner Schoeyer, Marnix
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 10 16 0999

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

专利名称(译)	超声系统和用于渲染体数据的方法		
公开(公告)号	EP2251831A3	公开(公告)日	2017-03-08
申请号	EP2010160999	申请日	2010-04-26
申请(专利权)人(译)	MEDISON CO. , LTD.		
当前申请(专利权)人(译)	MEDISON CO. , LTD.		
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代理机构(译)	SCHMID , WOLFGANG		
优先权	1020090040626 2009-05-11 KR		
其他公开文献	EP2251831A2		
外部链接	Espacenet		

摘要(译)

公开了用于体数据渲染的实施例。第一处理器通过使用多个超声数据形成体数据。耦合到第一处理器的用户接口接收包括ROI的大小和位置的感兴趣区域 (ROI) 设置信息。耦合到第一处理器的第二处理器基于ROI设置信息沿着体数据的边缘，多个采样点和关于体数据的射线投射方向设置多个采样起始点。GPU被配置为将位于ROI内部或外部的采样起始点移动到位于ROI处以呈现体数据。

FIG. 3

