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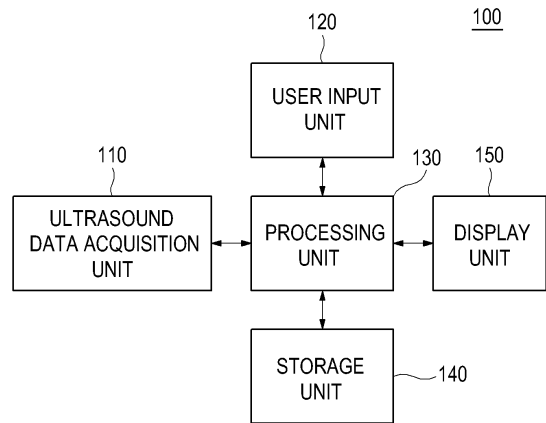
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(54) **Providing a three-dimensional ultrasound image based on a sub region of interest in an ultrasound system**

(57) Embodiments for providing a three-dimensional (3D) ultrasound image are disclosed. In one embodiment, by way of non-limiting example, an ultrasound system comprises: an ultrasound data acquisition unit configured to transmit and receive ultrasound signals to and from a target object to output a plurality of ultrasound data; a user input unit configured to receive first input information for defining a region of interest (ROI) from a user; and a processing unit in communication with the ultrasound data acquisition unit and the user input unit, the processing unit being configured to form volume data based on the plurality of ultrasound data, define the ROI in the volume data in response to the first input information, and render volume data corresponding to the ROI to form a three-dimensional (3D) ultrasound image, wherein the user input unit is further configured to receive second input information for defining a sub ROI on the 3D ultrasound image, and wherein the processing unit is further configured to define the sub ROI in the volume data based on the second input information, and render volume data corresponding to the sub ROI to form a sub 3D ultrasound image.

FIG. 1



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			TECHNICAL FIELDS SEARCHED (IPC)
			G01S A61B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 17 May 2013	Examiner Knoll, Bernhard
CATEGORY OF CITED DOCUMENTS		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	
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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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)	在超声系统中基于感兴趣的子区域提供三维超声图像		
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外部链接	Espacenet		

摘要(译)

公开了用于提供三维 (3D) 超声图像的实施例。在一个实施例中，作为非限制性示例，超声系统包括：超声数据获取单元，被配置为向目标对象发送超声信号并从目标对象接收超声信号以输出多个超声数据；用户输入单元，被配置为从用户接收用于定义感兴趣区域 (ROI) 的第一输入信息；以及与超声数据获取单元和用户输入单元通信的处理单元，处理单元被配置为基于多个超声数据形成体数据，响应于第一输入信息在体数据中定义ROI，并且渲染对应于ROI的体数据以形成三维 (3D) 超声图像，其中用户输入单元还被配置为接收用于在3D超声图像上定义子ROI的第二输入信息，并且其中处理单元是进一步用于基于第二输入信息定义体数据中的子ROI，并渲染与子ROI对应的体数据，以形成子3D超声图像。

