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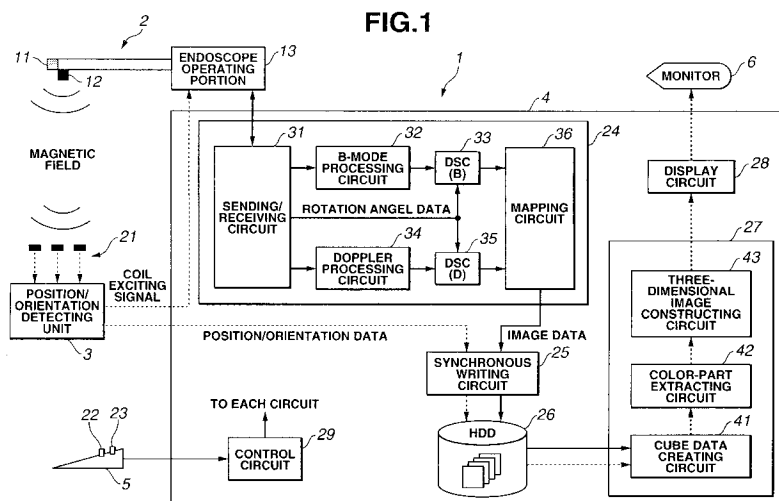
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(54) **Ultrasonic diagnosis apparatus**

(57) An ultrasonic diagnosis apparatus for obtaining ultrasonic echo signals of a part to be examined from a probe in a body cavity, includes an ultrasonic probe, a detector and a voxel data creating circuit. The ultrasonic probe has at predetermined positions of an inserting axis a plurality of ultrasonic transducers on the circumference about the inserting axis for performing ultrasonic scanning by using the plurality of ultrasonic transducers on a

plane perpendicular to the inserting axis by sending and receiving ultrasound to and from the plurality of ultrasonic transducers. The detector detects the position or orientation of the scanned plane by the ultrasonic scanning by the ultrasonic probe. The voxel data creating circuit creates voxel data based on ultrasonic tomographic image data from echo signals serially obtained by the ultrasonic scanning by the ultrasonic probe and based on the position or orientation data detected by the detector.





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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 11 May 2007	Examiner ARTIKIS, T
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  
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专利名称(译)	超声诊断仪		
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摘要(译)

根据本发明的超声波诊断装置，用于从体腔内的探头获得待检部位的超声回波信号，包括超声波探头，检测器和体素数据产生电路。超声探头在插入轴的预定位置处在围绕插入轴的圆周上具有多个超声换能器，用于通过在垂直于插入轴的平面上使用多个超声换能器通过发送和接收超声来执行超声扫描。多个超声波换能器。检测器通过超声波探头的超声波扫描检测扫描平面的位置或方向。体素数据创建电路基于超声波断层图像数据来创建体素数据，所述超声波断层图像数据来自通过超声波探头的超声波扫描并且基于由检测器检测到的位置或取向数据而连续获得的回波信号。

