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(54) **Synchronization of ultrasound imaging data with electrical mapping**

(57) An image of an electro-anatomical map of a body structure having cyclical motion is overlaid on a 3D ultrasonic image of the structure. The electro-anatomical data and anatomic image data are synchronized by gating both electro-anatomical data acquisition and an an-

atomic image at a specific point in the motion cycle. Transfer of image data includes identification of a point in the motion cycle at which the 3-dimensional image was captured or is to be displayed.

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PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 45 of the European Patent Convention EP 06 25 5546 shall be considered, for the purposes of subsequent proceedings, as the European search report

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	WO 01/20552 A (MAYO FOUNDATION [US]) 22 March 2001 (2001-03-22) * page 5, line 18 - page 9, line 9 * * page 11, line 11 - page 12, line 6 * * page 15, line 8 - line 20 * * page 20, line 3 - page 21, line 15 * * figures 1-5,8-10 * -----	1-6	INV. A61B8/12 A61B5/042 ADD. A61B5/06
A,D	US 6 650 927 B1 (KEIDAR YARON [IL]) 18 November 2003 (2003-11-18) * column 5, line 29 - line 45 * * column 6, line 30 - column 7, line 60 * * figures 1-7 * -----	1-6	
A	EP 0 974 936 A2 (BIOSENSE INC [US]) BIOSENSE WEBSTER INC [US] 26 January 2000 (2000-01-26) * paragraphs [0030], [0032] * -----	1-7	
A	WO 2004/049928 A (W O M WORLD OF MEDICINE AG [DE]; PREHN HORST [DE]; SUS RAINER [DE]) 17 June 2004 (2004-06-17) * page 36, line 8 - page 37, line 5 * ----- -/--	7	TECHNICAL FIELDS SEARCHED (IPC) A61B G06T
INCOMPLETE SEARCH			
The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims. Claims searched completely : Claims searched incompletely : Claims not searched : Reason for the limitation of the search: see sheet C			
Place of search		Date of completion of the search	Examiner
The Hague		20 September 2007	Görlach, Tobias
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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EPO FORM 1503 03.82 (P04C07)



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Application Number
EP 06 25 5546

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			TECHNICAL FIELDS SEARCHED (IPC)



European Patent
Office

**INCOMPLETE SEARCH
SHEET C**

Application Number
EP 06 25 5546

Claim(s) searched completely:
1-7

Claim(s) not searched:
8-33

Reason for the limitation of the search (non-patentable invention(s)):

Article 52(4) EPC - Method for treatment of the human or animal body by surgery

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 06 25 5546

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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20-09-2007

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专利名称(译)	超声成像数据与电子映射的同步		
公开(公告)号	EP1779787A3	公开(公告)日	2007-10-31
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申请(专利权)人(译)	生物传感韦伯斯特，INC.		
当前申请(专利权)人(译)	生物传感韦伯斯特，INC.		
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发明人	ALTMANN, ANDRES CLAUDIO PREISS, ASSAF GOVARI, ASSAF		
IPC分类号	A61B8/12 A61B5/042 A61B5/06		
CPC分类号	A61B8/4488 A61B5/0035 A61B5/042 A61B5/062 A61B5/7289 A61B6/5247 A61B6/5288 A61B8/12 A61B8/483 A61B8/5238 A61B8/5284		
优先权	11/262217 2005-10-28 US		
其他公开文献	EP1779787A2 EP1779787B1		
外部链接	Espacenet		

摘要(译)

具有循环运动的身体结构的电解剖图的图像覆盖在该结构的3D超声图像上。通过在运动周期中的特定点处选择电解剖数据采集和解剖图像来同步电解剖数据和解剖图像数据。图像数据的传送包括识别捕获或将要显示三维图像的运动周期中的点。



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Application Number
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INCOMPLETE SEARCH The Search Division considers that the present application, or one or more of its claims, does not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims. Claims searched incompletely: Claims not searched: Reason for the limitation of the search: see sheet C			
Place of search: The Hague		Date of completion of the search: 20 September 2007	Examiner: Görlach, Tobias
CATEGORY OF CITED DOCUMENTS X particularly relevant if taken alone O particularly relevant if considered with another document of the same category A non-written disclosure I intermediate document		E theory or principle underlying the invention R prior art document, but published only, or after the filing date D document cited in the application L document cited for other reasons A: member of the same patent family, corresponding document	