

**SUPPLEMENTARY
EUROPEAN SEARCH REPORT**

Application Number
EP 03 74 4050

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 5 653 235 A (TEO TAT-JIN [US]) 5 August 1997 (1997-08-05) * column 3, line 45 - column 4, line 22; figures 1,2,4 * * column 5, line 5 - column 6, line 44 *	1-7,9, 13-16	INV. A61B8/00
Y	-----	8,10-12	
X	US 6 102 860 A (MOONEY MATTHEW [US]) 15 August 2000 (2000-08-15) * column 6, line 25 - column 7, line 15; figures 1,3,5,8 * * column 3, line 35 - column 4, line 50 *	1-7,13, 14,16	
Y	EP 0 150 634 A (CGR ULTRASONIC [FR]) 7 August 1985 (1985-08-07) * column 1, line 53 - line 58; figures 1,3 * * column 2, line 14 - line 17 * * column 2, line 50 - line 60 *	10-12	
Y	US 6 014 897 A (MO LARRY Y L [US]) 18 January 2000 (2000-01-18) * column 5, line 54 - line 63 *	8	TECHNICAL FIELDS SEARCHED (IPC) A61B G01S
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Place of search The Hague		Date of completion of the search 26 November 2008	Examiner Ekstrand, Vilhelm
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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

EP 03 74 4050

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-11-2008

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5653235	A	05-08-1997	NONE	
US 6102860	A	15-08-2000	NONE	
EP 0150634	A	07-08-1985	DE 3471785 D1	07-07-1988
			FR 2553521 A1	19-04-1985
			JP 60150734 A	08-08-1985
			US 4641660 A	10-02-1987
US 6014897	A	18-01-2000	EP 1046056 A1	25-10-2000
			JP 2002523203 T	30-07-2002
			WO 0013038 A1	09-03-2000

专利名称(译)	超声检查		
公开(公告)号	EP1484019A4	公开(公告)日	2008-12-31
申请号	EP2003744050	申请日	2003-03-11
[标]申请(专利权)人(译)	株式会社日立医药		
申请(专利权)人(译)	日立医疗器械股份有限公司		
当前申请(专利权)人(译)	日立医疗器械股份有限公司		
[标]发明人	SHINOMURA RYUICHI KANDA HIROSHI TAMANO SATOSHI		
发明人	SHINOMURA, RYUICHI KANDA, HIROSHI TAMANO, SATOSHI		
IPC分类号	A61B8/00 A61B8/13		
CPC分类号	G01S7/52085 A61B8/13 A61B8/4494 A61B8/483 G01S7/52065 G01S15/8922 G01S15/8925 G01S15/8927 G10K11/345 Y10S128/922		
优先权	2002066591 2002-03-12 JP		
其他公开文献	EP1484019A1		
外部链接	Espacenet		

摘要(译)

一种超声波诊断装置，包括：超声波探头，该超声波探头具有用于向被检查对象发送和接收超声波的二维配置的换能器元件；用于选择在超声波的收发中使用的换能器元件的换能器元件选择装置；以及用于应用的信号处理单元。对由所选换能器元件接收的信号的延迟时间，用于基于信号处理单元的输出信号生成图像的图像处理单元以及用于显示图像的图像显示单元，其中，图像处理单元包括存储装置 用于存储通过扫描由换能器元件选择装置选择的第一换能器布置获得的第一超声图像和通过扫描由换能器元件选择装置选择的第二换能器布置获得的第二超声图像，以照射超声束 与光束方向不同的方向 所述第一换能器装置的一个和一个用于将所述第一超声图像和所述第二超声图像组合的图像计算装置。通过提供上述超声波诊断设备，可以使用二维布置的超声波探头来收集高分辨率的断层图像，并且可以使用二维布置的超声波探头来提高诊断图像的图像质量而不会增加 规模。

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 5 653 235 A (TEO TAT-JIN [US]) 5 August 1997 (1997-08-05) * column 3, line 45 - column 4, line 22; figures 1,2,4 *	1-7,9, 13-16	INV. A61B8/00
Y		8,10-12	
X	US 6 102 860 A (MOONEY MATTHEW [US]) 15 August 2000 (2000-08-15) * column 6, line 25 - column 7, line 15; figures 1,3,5,8 *	1-7,13, 14,16	
Y		10-12	
Y	EP 0 150 634 A (CGR ULTRASONIC [FR]) 7 August 1985 (1985-08-07) * column 1, line 53 - line 58; figures 1,3 * column 2, line 14 - line 17 *		
Y	US 6 014 897 A (MO LARRY Y L [US]) 18 January 2000 (2000-01-18) * column 5, line 54 - line 53 *	8	TECHNICAL FIELD SEARCHED (IPC) A61B G01S
The supplementary search report has been based on the last set of claims valid and available at the start of the search			
2	Place of search The Hague	Date of completion of the search 26 November 2008	Examiner Ekstrand, Vilhelm
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if considered with another document of the same category A: document of the same category B: non-written disclosure C: non-written disclosure D: intermediate document			
1: theory or principle forming the invention 2: earlier patent document, but published on, or after, the filing date 3: document cited in the application 4: document cited for other reasons 5: member of the same patent family, corresponding document			