



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 5 233 993 A (KAWANO ET AL) 10 August 1993 (1993-08-10)	1,5,6, 13,14, 16-19	A61B8/00 G01S15/89
Y	* abstract; figures 1-6 * * column 1, line 6 - column 8, line 66 * -----	2-4, 7-12,15, 20,21	
X	US 4 790 321 A (MIWA ET AL) 13 December 1988 (1988-12-13)	1,5-7, 11,13, 14,17-19	
	* abstract; figures 2a-5 * * column 1, lines 14-19 * * column 2, lines 20-41 * * column 4, lines 42-47 * * column 5, line 18 - column 9, line 16 * * column 12, lines 41-48 * -----		
X	EP 0 406 909 A (KABUSHIKI KAISHA TOSHIBA) 9 January 1991 (1991-01-09)	1,7,13, 14	TECHNICAL FIELDS SEARCHED (Int.Cl.7) G01S
	* abstract; figures 1-4c,6 * * column 3, line 54 - column 5, line 17 * * column 5, line 40 - column 6, line 25 * * column 6, line 57 - column 10, line 10 * ----- -/--		
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 Munich		Date of completion of the search 9 March 2005	Examiner Reuss, T
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, ooresponding 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			

1
EPO FORM 1503 03.82 (F04C04)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	NELSON T R ET AL: "Three-dimensional ultrasound imaging" ULTRASOUND IN MEDICINE AND BIOLOGY, NEW YORK, NY, US, vol. 24, no. 9, December 1998 (1998-12), pages 1243-1270, XP004295279 ISSN: 0301-5629 * abstract; figures 2,3 * * page 1244, right-hand column, paragraph 2 - page 1246, right-hand column, paragraph 1 * * page 1258, right-hand column * * page 1261, left-hand column, paragraph 3 - right-hand column, paragraph 1 * * page 1263, left-hand column, paragraph 2 *	2-4, 7-12,20, 21	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
Y	----- PATENT ABSTRACTS OF JAPAN vol. 2000, no. 02, 29 February 2000 (2000-02-29) & JP 11 299786 A (MATSUSHITA ELECTRIC IND CO LTD), 2 November 1999 (1999-11-02) * abstract *	15	
A	----- WO 99/30617 A (ACUSON CORPORATION) 24 June 1999 (1999-06-24) * figures 1,2,13 * * page 2, line 21 - page 3, line 8 * * page 5, line 1 - page 6, line 3 * * page 8, line 23 - page 9, column 2 * * page 10, lines 19-28 * -----	16	
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 Munich		Date of completion of the search 9 March 2005	Examiner Reuss, 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, ooresponding document	

1
EPO FORM 1503 03.82 (F04C04)

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

EP 01 98 2791

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.

09-03-2005

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5233993 A	10-08-1993	JP 3000233 B2	17-01-2000
		JP 4183457 A	30-06-1992
US 4790321 A	13-12-1988	JP 62114539 A	26-05-1987
		DE 3686401 D1	17-09-1992
		DE 3686401 T2	28-01-1993
		EP 0226044 A2	24-06-1987
EP 0406909 A	09-01-1991	JP 2772045 B2	02-07-1998
		JP 3039147 A	20-02-1991
		DE 69017102 D1	30-03-1995
		DE 69017102 T2	26-10-1995
		EP 0406909 A2	09-01-1991
		US 5144954 A	08-09-1992
JP 11299786 A	02-11-1999	JP 3366251 B2	14-01-2003
WO 9930617 A	24-06-1999	AU 2200299 A	05-07-1999
		US 2003018253 A1	23-01-2003
		WO 9930617 A1	24-06-1999
		US 6193663 B1	27-02-2001
		US 2004087857 A1	06-05-2004
		US 6436046 B1	20-08-2002

专利名称(译)	超声诊断设备		
公开(公告)号	EP1249208A4	公开(公告)日	2005-05-04
申请号	EP2001982791	申请日	2001-11-15
[标]申请(专利权)人(译)	日立阿洛卡医疗株式会社		
申请(专利权)人(译)	ALOKA CO. , LTD.		
当前申请(专利权)人(译)	ALOKA CO. , LTD.		
[标]发明人	MOCHIZUKI TAKASHI ALOKA CO LTD		
发明人	MOCHIZUKI, TAKASHI, ALOKA CO., LTD.		
IPC分类号	A61B8/00 G01S15/89		
CPC分类号	A61B8/4209 A61B8/4281 A61B8/481 A61B8/483 G01S7/52039 G01S7/52085 G01S7/52095 G01S15/8918 G01S15/8925 G01S15/8945 G01S15/8993 Y10S128/916		
优先权	2000348357 2000-11-15 JP		
其他公开文献	EP1249208A1 EP1249208B1		
外部链接	Espacenet		

摘要(译)

一种用于形成3-D回波数据捕获区域的超声诊断设备。束地址阵列由构成3-D回波数据捕获空间的多个超声束地址组成。波束地址阵列分为多个地址组，每个地址组重复执行两次地址扫描。因此，当对在相同光束位置中获取的两个数据执行差分操作时，缩短了两个数据之间的时间间隔。超声造影剂在生物组织中的存在或行为显示为3D差分图像。

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim:	CLASSIFICATION OF THE APPLICATION (INCL.7)
X	US 5 233 993 A (KANANO ET AL) 10 August 1993 (1993-08-10)	1, 5, 6, 13, 14, 16-19, 2-4, 7-12, 15, 20, 21	A61B8/00 G01S15/89
Y	* abstract: figures 1-6 * * column 1, line 6 - column 8, line 66 * -----		
X	US 4 796 321 A (MIWA ET AL) 13 December 1988 (1988-12-13)	1, 5-7, 11, 13, 14, 17-19	TECHNICAL FIELD SEARCHED (INCL.7) G01S
X	* abstract: figures 2a-5 * * column 1, lines 14-19 * * column 2, lines 20-43 * * column 4, lines 42-47 * * column 5, line 18 - column 9, line 16 * * column 12, lines 41-48 * -----		
X	EP 0 406 909 A (KABUSHIKI KAISHA TOSHIBA) 9 January 1991 (1991-01-09)	1, 7, 13, 14	
	* abstract: figures 1-4c, 6 * * column 3, line 54 - column 5, line 17 * * column 5, line 40 - column 6, line 25 * * column 6, line 57 - column 10, line 10 * -----		
The supplementary search report has been based on the last set of claims valid and available at the start of the search.			
Munich		9 March 2005	Reuss, T
<small> 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 documents F: intermediate document T: theory or principle underlying the invention P: prior art documents, but published on, or after, the filing date D: document cited in the application I: document cited for other reasons & / number of the same patent family, corresponding document </small>			