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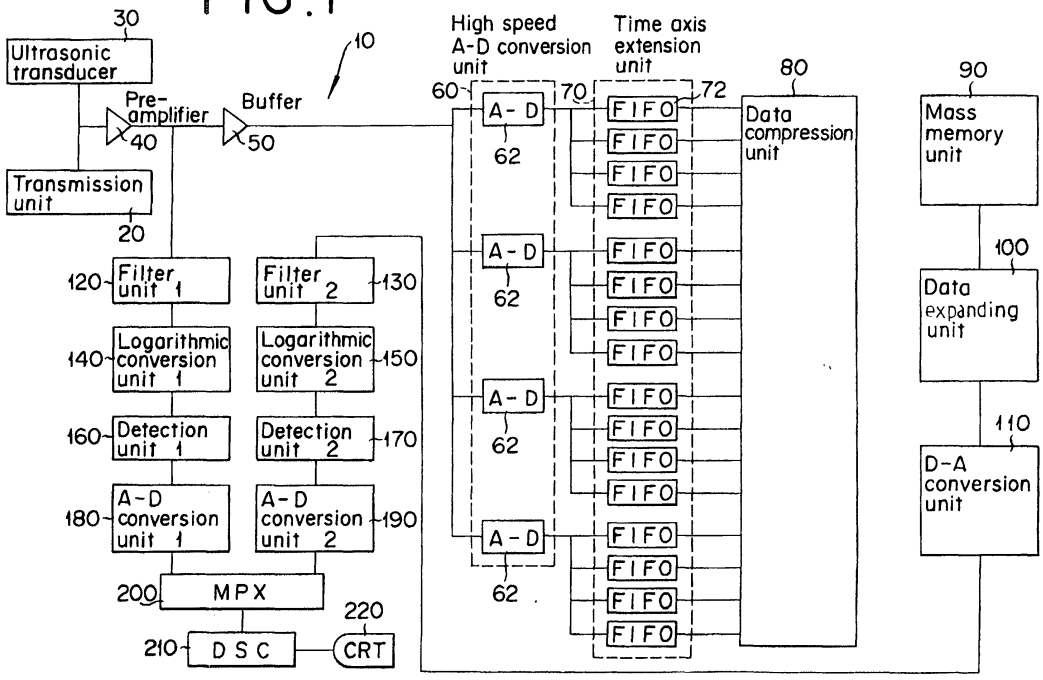
(54) Ultrasonic diagnostic device

(57) An ultrasonic diagnostic device comprising an ADC (60) that converts signals to digital format, a time axis extension unit (70) that is capable of writing and reading the digital data, a data compression unit (80) that compresses the read data, a memory unit (90) that stores the compressed data, a data expanding unit that expands the compressed data stored in the memory unit, and a DAC (110) that converts the expanded data from a digital format to an analog format, wherein optimum images can be displayed for diagnosis by means of filtering, logarithmically converting, and detecting before inputting the data into the digital scan converter (210).

FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 00 40 0874

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	US 5 257 629 A (KITNEY RICHARD I ET AL) 2 November 1993 (1993-11-02) * abstract; figure 1 * * column 1, line 32-50 * * column 3, line 1-25 * * column 6, line 1-5 * * column 10, line 26-54 * ---	1-5	G01S7/52
Y	US 5 291 401 A (ROBINSON BRUCE T) 1 March 1994 (1994-03-01) * column 1, line 6-40 * * column 5, line 41-46 * ---	1-5	
Y	PESAVENTO A ET AL: "Compression of ultrasonic RF data" ULTRASONICS SYMPOSIUM, 1997. PROCEEDINGS., 1997 IEEE TORONTO, ONT., CANADA 5-8 OCT. 1997, NEW YORK, NY, USA,IEEE, US, 5 October 1997 (1997-10-05), pages 1471-1474, XP010271606 ISBN: 0-7803-4153-8 * Chapter INTRODUCTION * ---	1-5	
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A	WO 97 09930 A (MEDISON CO LTD ;LEE KI JONG (KR)) 20 March 1997 (1997-03-20) * page 5; figure 3 * ---		
A	US 4 412 249 A (CARMEN RALPH H) 25 October 1983 (1983-10-25) * abstract; figure 2 * * column 1, line 62 - column 2, line 21 * -----		

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
MUNICH	14 April 2003	Grübl, A

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 ON EUROPEAN PATENT APPLICATION NO. EP 00 40 0874

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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)	超声诊断设备		
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外部链接	Espacenet		

摘要(译)

一种超声波诊断装置，包括将信号转换为数字格式的ADC（60），能够写入和读取数字数据的时间轴扩展单元（70），压缩读取数据的数据压缩单元（80），存储单元（90）存储压缩数据，数据扩展单元扩展存储在存储单元中的压缩数据，DAC（110）将扩展数据从数字格式转换为模拟格式，其中最佳图像可以在将数据输入数字扫描转换器之前，通过滤波，对数转换和检测来显示诊断信息（210）。