



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
18.09.2002 Bulletin 2002/38

(51) Int Cl.7: **A61B 8/13, A61B 8/14**

(43) Date of publication A2:
04.10.2001 Bulletin 2001/40

(21) Application number: **01302344.5**

(22) Date of filing: **14.03.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventors:

- **Nakamura, Mitsuyuki**
Yokohama-shi, Kanagawa-ken 240-0042 (JP)
- **Kosaka, Noboru**
Mitaka-shi, Tokyo 181-0004 (JP)

(30) Priority: **28.03.2000 JP 2000087851**

(74) Representative: **Rackham, Stephen Neil**
GILL JENNINGS & EVERY,
Broadgate House,
7 Eldon Street
London EC2M 7LH (GB)

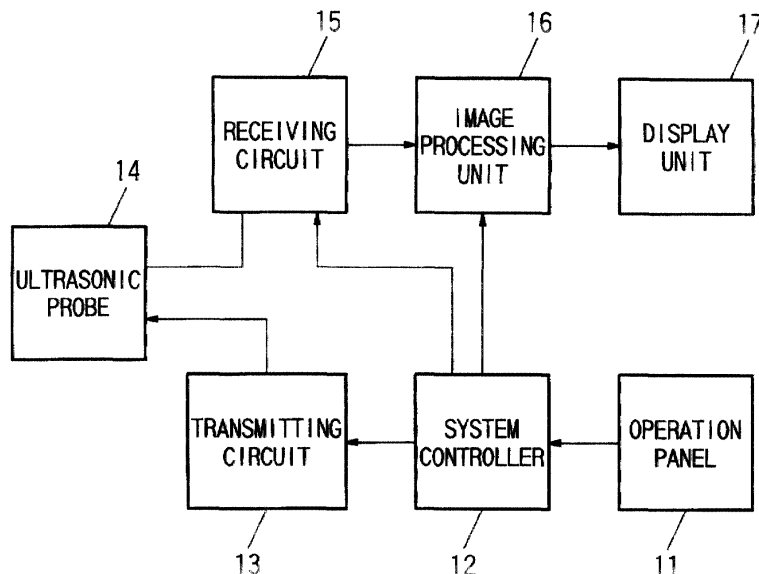
(71) Applicant: **MATSUSHITA ELECTRIC INDUSTRIAL
CO., LTD.**
Kadoma-shi, Osaka 571-8501 (JP)

(54) **Tomographic ultrasonic diagnostic apparatus**

(57) The ultrasonic diagnostic apparatus of the present invention comprises an operation panel 11 through which different diagnostic conditions are set, a system controller 12 for controlling the frequency of the ultrasonic wave to be transmitted according to the field of view, a transmitting circuit 13 for transmitting ultra-

sonic wave, a receiving circuit 15 for receiving the reflected wave from an ultrasonic probe 14 to convert the reflected wave into an electric signal, an image processing unit 16 for applying the predetermined processing to the signal from the receiving circuit 15 and a display unit 17 for displaying tomographic image on the basis of the electric signal from the image processing apparatus 16.

FIG. 1





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 01 30 2344

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	PATENT ABSTRACTS OF JAPAN vol. 018, no. 285 (C-1206), 31 May 1994 (1994-05-31) & JP 06 054850 A (TOSHIBA CORP), 1 March 1994 (1994-03-01) * abstract * -----	1-5	A61B8/13 A61B8/14
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			A61B
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
BERLIN		25 July 2002	Bernas, Y
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	

EPO FORM 1503 03 B2 (P04/C01)

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

EP 01 30 2344

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.

25-07-2002

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 06054850	A	01-03-1994	NONE

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	断层超声诊断设备		
公开(公告)号	EP1138262A3	公开(公告)日	2002-09-18
申请号	EP2001302344	申请日	2001-03-14
申请(专利权)人(译)	松下电器产业有限公司.		
当前申请(专利权)人(译)	柯尼卡美能达, INC.		
[标]发明人	NAKAMURA MITSUYUKI KOSAKA NOBORU		
发明人	NAKAMURA, MITSUYUKI KOSAKA, NOBORU		
IPC分类号	A61B8/14 G01S7/52 G01S15/89 A61B8/13		
CPC分类号	G01S7/5206 A61B8/14 G01S15/895 G01S15/8952		
代理机构(译)	RACKHAM, STEPHEN NEIL		
优先权	2000087851 2000-03-28 JP		
其他公开文献	EP1138262B1 EP1138262A2		
外部链接	Espacenet		

摘要(译)

本发明的超声波诊断装置包括：操作面板11，通过该操作面板设置不同的诊断条件；系统控制器12，用于根据视场控制要发送的超声波的频率；发送电路13，用于发送超声波波形，用于接收来自超声波探头14的反射波以将反射波转换成电信号的接收电路15，用于将预定处理应用于来自接收电路15的信号的图像处理单元16和用于接收电路15的显示单元17基于来自图像处理设备16的电信号显示断层图像。

