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(54) Method and apparatus for acquisition and analysis of non-imaging data collected during ultrasound exam

(57) A method and a system for acquiring and analyzing non-imaging data collected during an ultrasound examination for the purpose of reporting ultrasound department performance characteristics. This is accomplished by tracking user keystrokes whenever the ultrasound imaging system is turned on, acquiring (46) the keystroke data from the ultrasound system and then using this data for departmental performance analysis (47). During an examination, the ultrasound system user presses buttons and selects items from menus on the operator interface (16). These keystrokes invoke functions or change operating parameters on the ultrasound imaging system. Simultaneously, a code representing the keystroke is stored in electronic storage (49). Along with this code, the date, time and values being set or adjusted are also stored. Subsequently, the data in the electronic storage can be extracted (51) for use in analysis of the use of the ultrasound imaging system.

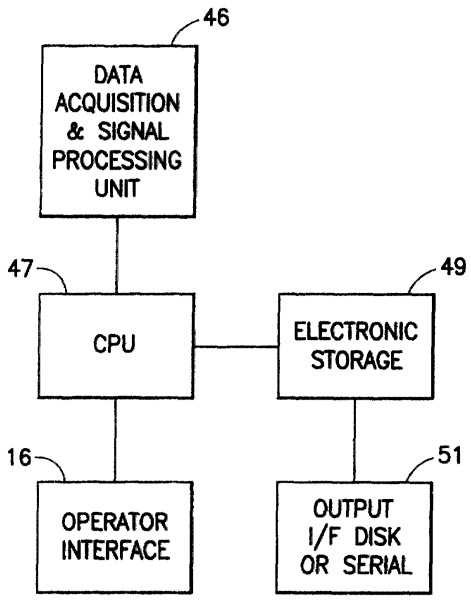

FIG.5

EP 1 112 719 A3

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EUROPEAN SEARCH REPORT

Application Number
EP 00 31 1647

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)
A	US 4 646 261 A (MOTOROLA) 24 February 1987 (1987-02-24) * column 4, line 19 - line 36 *	1,2,5-10	A61B8/00
A	WO 98 24358 A (FENSON & AL) 11 June 1998 (1998-06-11) * page 10, line 7 - page 11, line 35 *	1,5-10	

TECHNICAL FIELDS SEARCHED (Int.Cl.7)

A61B
G06F

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	20 September 2001	Lemercier, D

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 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 00 31 1647

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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20-09-2001

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US 4646261 A	24-02-1987	NONE	
WO 9824358 A	11-06-1998	AU 5461298 A	29-06-1998
		WO 9824358 A2	11-06-1998
		AU 8165498 A	04-01-1999
		WO 9859487 A1	30-12-1998

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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)	用于获取和分析在超声检查期间收集的非成像数据的方法和设备		
公开(公告)号	EP1112719A3	公开(公告)日	2001-11-07
申请号	EP2000311647	申请日	2000-12-22
申请(专利权)人(译)	GE医疗系统的全球技术公司LLC		
当前申请(专利权)人(译)	GE医疗系统的全球技术公司LLC		
[标]发明人	MULLEN PAUL STRATTON GREG C		
发明人	MULLEN, PAUL STRATTON, GREG C.		
IPC分类号	A61B8/00		
CPC分类号	A61B8/00 A61B8/4405 A61B8/461 A61B8/467 A61B8/565 G06Q10/10 G16H40/63 G16H50/20		
优先权	09/476596 1999-12-31 US		
其他公开文献	EP1112719A2 EP1112719B1		
外部链接	Espacenet		

摘要(译)

一种用于获取和分析在超声检查期间收集的非成像数据的方法和系统，用于报告超声部门表现特征。这是通过每当超声成像系统开启时跟踪用户击键，从超声系统获取（46）击键数据然后使用该数据进行部门性能分析来实现的（47）。在检查期间，超声系统用户按下按钮并从操作员界面（16）上的菜单中选择项目。这些击键调用功能或改变超声成像系统上的操作参数。同时，表示击键的代码存储在电子存储器（49）中。除此代码外，还会存储设置或调整的日期，时间和值。随后，可以提取电子存储器中的数据（51）以用于分析超声成像系统的使用。

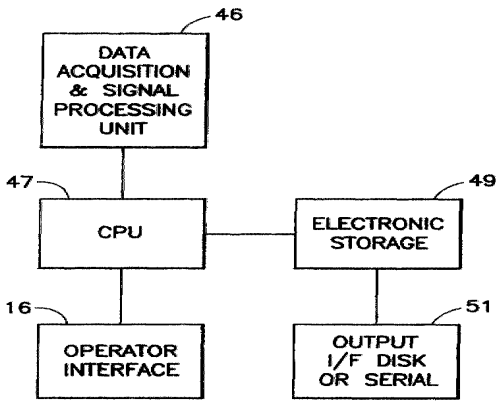

FIG.5