



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
30.10.2013 Bulletin 2013/44

(51) Int Cl.:
G06F 19/00 (2011.01)

(43) Date of publication A2:
01.07.2009 Bulletin 2009/27

(21) Application number: **08022080.9**

(22) Date of filing: **19.12.2008**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR
Designated Extension States:
AL BA MK RS

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(30) Priority: **27.12.2007 KR 20070138414**

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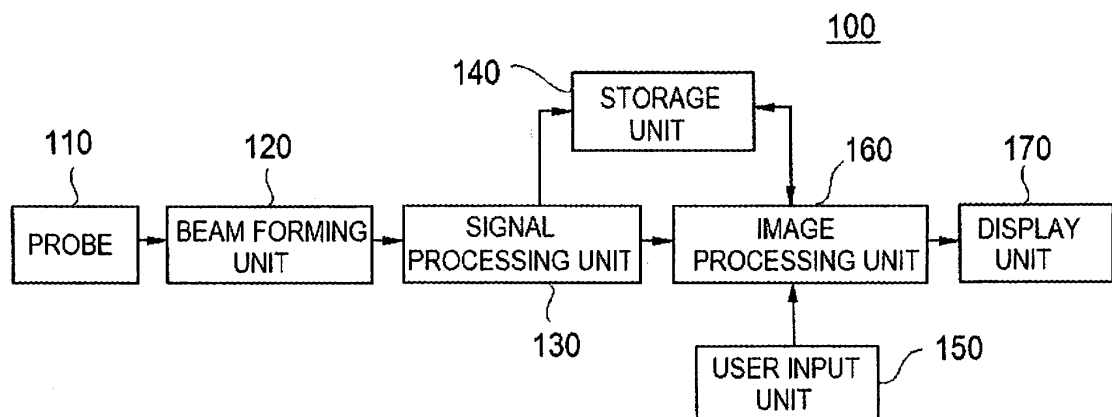
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(54) **Ultrasound diagnostic device and method of displaying ultrasound images**

(57) The present invention relates to an ultrasound diagnostic device. The ultrasound diagnostic device comprises: a storage unit configured to store a plurality of consecutive image frames based on ultrasound echoes reflected from a target object; an image processing unit configured to form preview images of the image frames, wherein the preview images are stored in the

storage unit in association with the corresponding image frames; and a user input unit allowing a user to input a selection instruction for selecting one of the preview images, wherein the image processing unit is further configured to read out an image frame corresponding to the selected preview image from the storage unit in response to the selection instruction.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
EP 08 02 2080

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 2007/242069 A1 (MATSUE KENJI [JP] ET AL) 18 October 2007 (2007-10-18)	1,8	INV. G06F19/00
Y	* abstract * * figures * * paragraph [0004] * * paragraph [0015] - paragraph [0020] * * paragraph [0053] - paragraph [0076] *	2,3,9,10	
Y	EP 1 557 837 A1 (SONY INT EUROPE GMBH [DE]) 27 July 2005 (2005-07-27)	2,3,9,10	
A	* abstract * * paragraph [0018] - paragraph [0026] * * paragraph [0050] - paragraph [0058] *	1,8	
Y	EP 1 465 196 A1 (MICROSOFT CORP [US]) 6 October 2004 (2004-10-06)	2,3,9,10	
A	* abstract * * paragraph [0008] - paragraph [0011] * * paragraph [0033] - paragraph [0048] *	1,8	TECHNICAL FIELDS SEARCHED (IPC) G06F A61B
A	US 6 217 515 B1 (YAMAKAWA TADAHIRO [JP] ET AL) 17 April 2001 (2001-04-17) * abstract * * figures * * column 1, line 43 - column 2, line 67 * * page 3, line 53 - column 5, line 61 *	1-3,8-10	
1 The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 24 May 2013	Examiner Abbing, Ralf
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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EPO FORM 1503 03.92 (P04C01)



Application Number

EP 08 02 2080

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-3, 8-10

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



LACK OF UNITY OF INVENTION
SHEET B

Application Number
EP 08 02 2080

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-3, 8-10

An ultrasonic diagnostic device configured to form preview images for image frames only for image frames having a specific value higher than a threshold value.

2. claims: 1, 4-8, 11-13

An ultrasonic diagnostic device allowing a user to input bookmarks indicating image frames to be replayed

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

EP 08 02 2080

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.

24-05-2013

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专利名称(译)	超声诊断装置和显示超声图像的方法		
公开(公告)号	EP2075722A3	公开(公告)日	2013-10-30
申请号	EP2008022080	申请日	2008-12-19
申请(专利权)人(译)	MEDISON CO. , LTD.		
当前申请(专利权)人(译)	MEDISON CO. , LTD.		
[标]发明人	KIM SUNG YUN KIM YUN JIN		
发明人	KIM, SUNG, YUN KIM, YUN, JIN		
IPC分类号	G06F19/00 A61B8/00		
CPC分类号	G06F19/321 G16H30/20 G16H40/63 A61B8/00		
代理机构(译)	SCHMID , WOLFGANG		
优先权	1020070138414 2007-12-27 KR		
其他公开文献	EP2075722A2 EP2075722B1		
外部链接	Espacenet		

摘要(译)

超声波诊断装置技术领域超声诊断设备包括：存储单元，被配置为基于从目标对象反射的超声回波来存储多个连续图像帧；图像处理单元，被配置为形成图像帧的预览图像，其中预览图像与对应的图像帧相关联地存储在存储单元中；用户输入单元，允许用户输入用于选择预览图像之一的选择指令，其中，图像处理单元还用于响应于选择，从存储单元中读出与所选择的预览图像对应的图像帧。指令。

FIG. 1

