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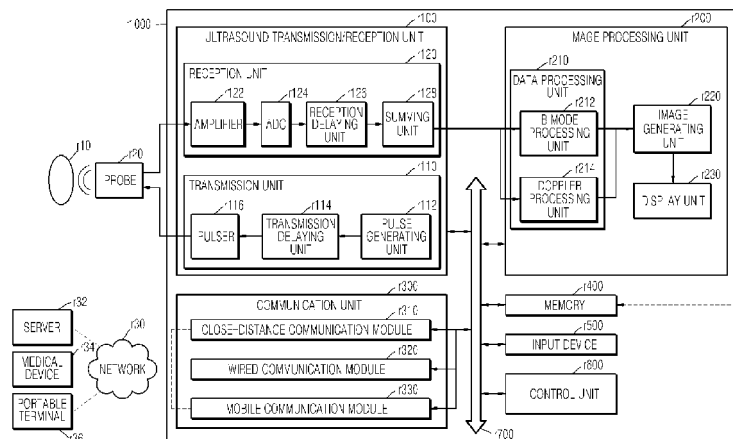
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(54) **ULTRASOUND DIAGNOSIS DEVICE**

(57) Ultrasound diagnosis device comprising: control panel including a touch screen; at least one memory storing a plurality of layouts of user interfaces, each layout of the plurality of layouts including location information for displaying the user interfaces of the layout on the touch screen; and at least one processor configured to execute computer readable instructions to: receive user input selecting a type of diagnosis, display, on the touch screen, the user interfaces of a respective layout of the

plurality of layouts corresponding to the type of diagnosis selected by the user input, in accordance with the location information included in the respective layout, and change a location of at least one user interface of the user interfaces displayed on the touch screen based on drag-and-drop input received by the touch screen, wherein the user interfaces displayed on the touch screen are operable to control functions of the ultrasound diagnosis device.

FIG. 1B





EUROPEAN SEARCH REPORT

Application Number
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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	JP 2005 270317 A (TOSHIBA CORP; TOSHIBA MEDICAL SYS CORP) 6 October 2005 (2005-10-06) * paragraphs [0013], [0034], [0035], [0043]; figures 3,4 *	1-10	INV. A61B8/00 A61B5/117 G06F3/01 G06F3/0484 G06F3/03 G16H40/63
A	WO 2011/159034 A2 (ALPINION MEDICAL SYSTEMS CO [KR]; JO DONG MIN [KR]; PARK JIN YONG [KR]) 22 December 2011 (2011-12-22) * the whole document *	1-10	ADD. G01S7/52
A	EP 1 925 257 A1 (MEDISON CO LTD [KR]) 28 May 2008 (2008-05-28) * the whole document *	1-10	
A	US 2005/080326 A1 (MATHEW PRAKASH PARAYIL [US]) 14 April 2005 (2005-04-14) * paragraph [0006] *	1-10	
			TECHNICAL FIELDS SEARCHED (IPC)
			A61B G06F G01S
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 29 April 2020	Examiner Koprinarov, Ivaylo
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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

EP 19 20 3678

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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.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2005270317 A	06-10-2005	NONE	
WO 2011159034 A2	22-12-2011	KR 20110136098 A US 2013219317 A1 WO 2011159034 A2	21-12-2011 22-08-2013 22-12-2011
EP 1925257 A1	28-05-2008	EP 1925257 A1 KR 20080046888 A US 2008125655 A1	28-05-2008 28-05-2008 29-05-2008
US 2005080326 A1	14-04-2005	DE 102004049448 A1 JP 5156174 B2 JP 2005144154 A US 2005080326 A1	04-05-2005 06-03-2013 09-06-2005 14-04-2005

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

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外部链接	Espacenet		

摘要(译)

超声诊断装置，包括：控制面板，其包括触摸屏；以及至少一个存储器，其存储用户界面的多个布局，所述多个布局的每个布局包括用于在触摸屏上显示该布局的用户界面的位置信息；至少一个处理器，其被配置为执行计算机可读指令，以：接收选择诊断类型的用户输入，在触摸屏上显示与由诊断设备选择的诊断类型相对应的多个布局中的各个布局的用户界面。用户根据各个布局中包括的位置信息进行输入，并基于触摸屏接收的拖放输入来改变显示在触摸屏上的用户界面中至少一个用户界面的位置，其中触摸屏上显示的用户界面可用于控制超声诊断设备的功能。

