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(54) **Integrated circuit apparatus, ultrasound measuring apparatus, ultrasound probe and ultrasound diagnosis apparatus**

(57) An integrated circuit apparatus includes transmitting circuits TX1 to TX64, which output transmission signals with regard to channels CH1 to CH64 of an ultrasound transducer device which has a plurality of ultrasound transducer elements, and a switching circuit which performs a switching operation. The switching circuit is provided between a receiving circuit and output nodes NQ1 to NQ64 of the transmitting circuits TX1 to TX64. Then, an operation is performed where the signal transfer of the transmission signal from the transmitting circuits TX1 to TX64 to the receiving circuit is set to be not transferred in a transmitting period. A switching operation is performed where the reception signals from the channels CH1 to CH64 are output to the receiving circuit in a receiving period.

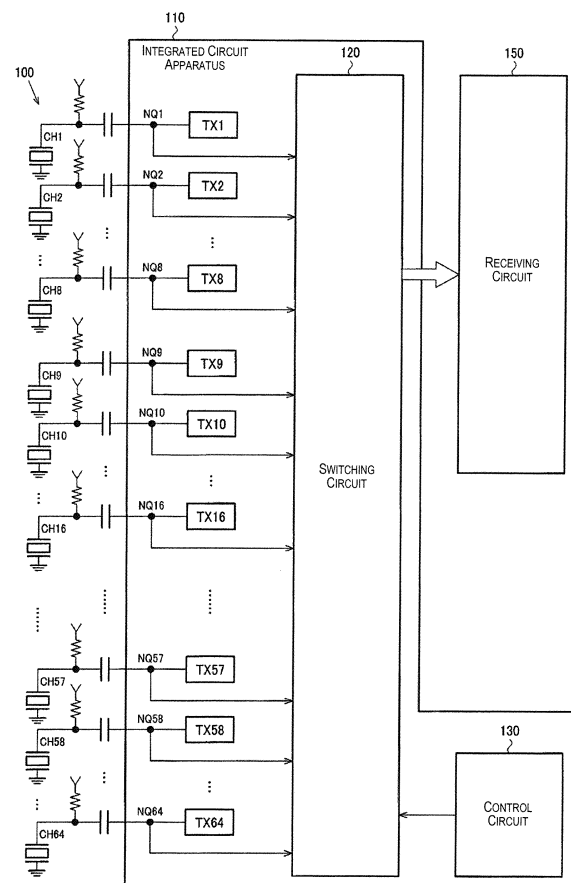


Fig. 3



EUROPEAN SEARCH REPORT

Application Number
EP 13 18 5518

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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)
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X	US 2004/122316 A1 (SATOY YOSHIKI [JP]) 24 June 2004 (2004-06-24) * figure 1 *	1	
X	JP 2003 175032 A (HITACHI MEDICAL CORP) 24 June 2003 (2003-06-24) * abstract; figures 8,9 *	1	
			TECHNICAL FIELDS SEARCHED (IPC)
			B06B G10K A61B G01S
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 16 November 2017	Examiner Bream, Philip
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
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EP 13 18 5518

5 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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16-11-2017

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专利名称(译)	集成电路装置，超声波测量装置，超声波探头和超声波诊断装置		
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优先权	2012210462 2012-09-25 JP		
其他公开文献	EP2711094A2		
外部链接	Espacenet		

摘要(译)

集成电路装置包括发送电路TX1至TX64，其发送关于具有多个超声换能器元件的超声换能器装置的通道CH1至CH64的发送信号，以及执行切换操作的切换电路。开关电路设置在发送电路TX1至TX64的接收电路和输出节点NQ1至NQ64之间。然后，执行操作，其中将发送信号从发送电路TX1至TX64到接收电路的信号传送设置为在发送时段中不被传送。执行切换操作，其中来自从信道CH1至CH64中选择的信道的接收信号在接收时段中输出到接收电路。

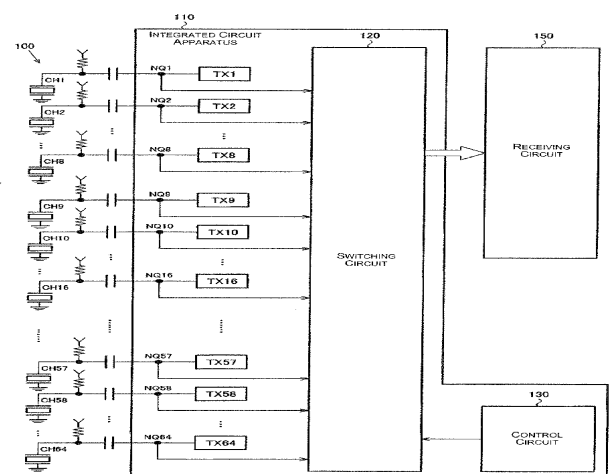


Fig. 3