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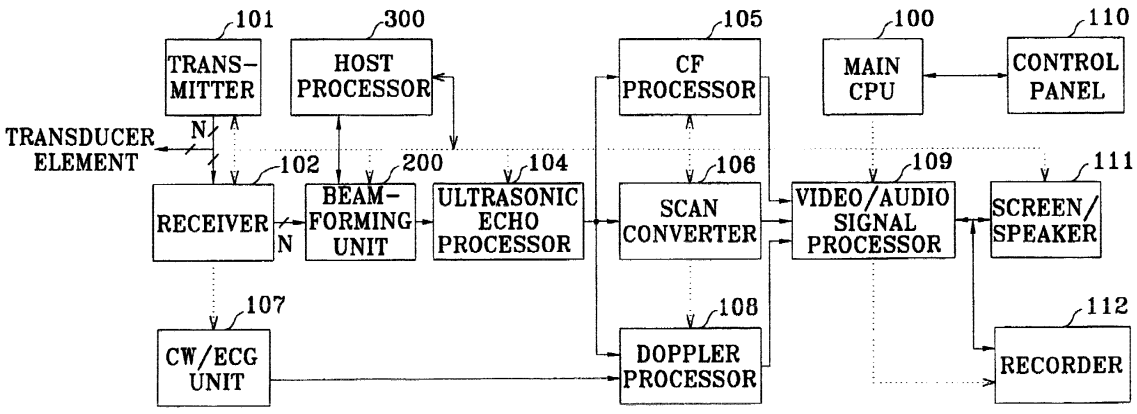
(54) Medical digital ultrasonic imaging apparatus capable of storing and reusing radio-frequency (RF) ultrasound pulse echoes

(57) A storing method of a RF ultrasound pulse echo and a medical digital ultrasonic imaging apparatus capable of re-using the stored RF ultrasound pulse echo store and focus each RF ultrasound pulse echo received from a plurality of transducer elements in order to implement an ultrasonic image of at least one frame. Then, the stored RF ultrasound pulse echoes are analyzed, to thereby control the system according to the analysis result, which results in implementation of an optimal ultrasonic image.

FIG. 3



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EUROPEAN SEARCH REPORT

Application Number
EP 00 30 0764

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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	29 May 2001	Roost, J

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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A : technological background
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L : document cited for other reasons

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EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 00 30 0764

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专利名称(译)	能够存储和重复使用射频（RF）超声脉冲回波的医疗数字超声成像设备		
公开(公告)号	EP1028324A3	公开(公告)日	2001-07-18
申请号	EP2000300764	申请日	2000-02-01
申请(专利权)人(译)	MEDISON CO.，LTD.		
当前申请(专利权)人(译)	三星MEDISON CO.，LTD.		
[标]发明人	LEE MIN HWA SONG TAI KYONG		
发明人	LEE, MIN HWA SONG, TAI KYONG		
IPC分类号	A61B8/00 G01N29/44 G01S7/52 G06T1/00 G10K11/34 G01S15/89		
CPC分类号	G10K11/341 G01S7/52026 G01S7/52034		
代理机构(译)	看，MATTHEW CHARLES		
优先权	1019990004474 1999-02-09 KR		
其他公开文献	EP1028324A2 EP1028324B1		
外部链接	Espacenet		

摘要(译)

RF超声脉冲回波的存储方法和能够重新使用所存储的RF超声脉冲回波的医用数字超声成像设备存储并聚焦从多个换能器元件接收的每个RF超声脉冲回波，以便实现超声图像。至少一帧。然后，分析所存储的RF超声脉冲回波，从而根据分析结果控制系统，这导致实现最佳超声图像。

FIG. 3