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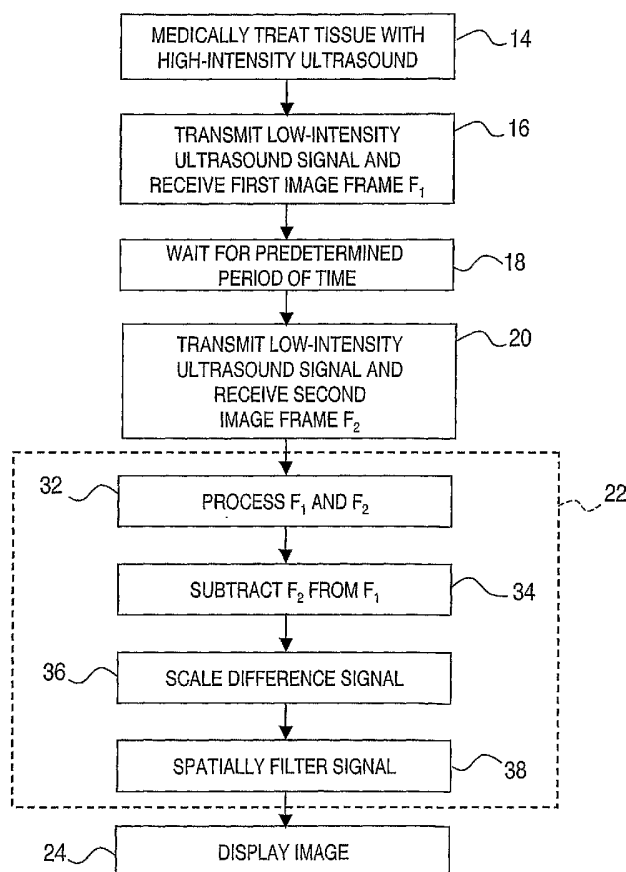
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[Continued on next page]

(54) Title: MEDICAL TREATMENT MONITORING USING PULSE-ECHO ULTRASOUND



(57) Abstract: A method for ultrasound imaging of anatomical tissue. A first signal is received from a first imaging ultrasound wave which has been reflected from a location in the anatomical tissue during a first time period (16). A second signal is received from a second imaging ultrasound wave which has been reflected from the location in the anatomical tissue during a later second time period (20), following a discrete medical treatment (14). The second signal is subtracted from the first signal to form a difference signal (22). The difference signal may be scaled, spatially filtered, then used to generate an indication, the indication showing the effect of the medical treatment in the location in the anatomical tissue.

WO 2005/072084 A3



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International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61B 8/00
 US CL : 600/439

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 600/407, 409,439; 601-2 - 4; 606/1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 N/A

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 East: ultraso\$9,(treatment or therap\$7), (subtract\$4 or differenc\$4), (image\$1 or imaging or frame\$1)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,086,535 (ISHIBASHI et al) 11 July 2000, col. 15 line 37 - col. 16 line 33	1
A	US 5,657,760 (YING et al) 19 August 1997, Col. 7 lines 40-50, col. 8 lines 34 - 40	1
A	US 5,485,839 (AIDA et al) 23 January 1996, Col. 7 lines 27-32, 9 lines 61-67, 14 lines 54-67.	1
A	US 5,944,663 (KUTH et al) 31 August 1999, Col. 10 lines 1 - 20	1

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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