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(71) Applicant: **MEDISON CO., LTD.**
Kangwon-do 250-870 (KR)

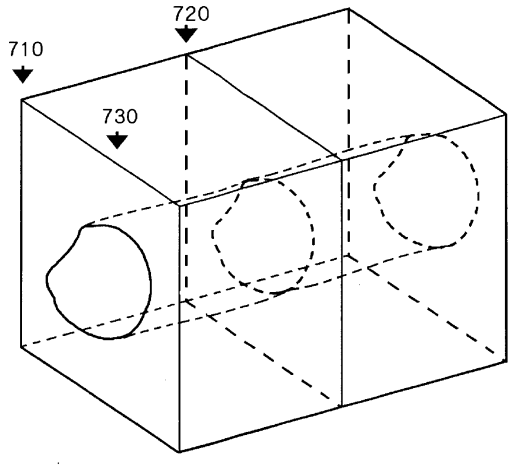
(72) Inventor: **Hyun, Dong Gyu**
Gangnam-gu,
Seoul 135-280 (KR)

(74) Representative: **Lorenz, Markus**
Lorenz & Kollegen
Alte Ulmer Strasse 2
89522 Heidenheim (DE)

(54) Apparatus and method for displaying an ultrasound image

(57) Embodiments of the present invention may provide an apparatus and a method for displaying a 3-dimensional ultrasound image formed based on 2-dimensional ultrasound images. The method for displaying an ultrasound image, comprises: a) forming and storing a plurality of sequential 2-dimensional ultrasound images based on ultrasound echo signals reflected from a target object, each of said sequential 2-dimensional ultrasound images being assigned a serial number; b) selecting N numbers of 2-dimensional ultrasound images having consecutive serial numbers; c) superposing the N number of 2-dimensional ultrasound images to form a 3-dimensional ultrasound image; d) forming a flow direction marker indicating a first 2-dimensional ultrasound image from the N numbers of 2-dimensional ultrasound images; e) displaying the 3-dimensional ultrasound image together with the flow direction marker on a screen; f) removing the first 2-dimensional ultrasound image from the N numbers of 2-dimensional ultrasound images; g) selecting a $(N+1)^{th}$ 2-dimensional ultrasound image and superposing the selected 2-dimensional ultrasound image to the superposed 2-dimensional ultrasound images; and h) repeating the steps c) to h) as many as a predetermined number.

FIG. 7



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EUROPEAN SEARCH REPORT

Application Number
EP 06 02 5081

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TECHNICAL FIELDS SEARCHED (IPC)

A61B
G01S

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	2 May 2008	Koprinarov, Ivaylo

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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A : technological background
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 06 02 5081

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02-05-2008

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

专利名称(译)	用于显示超声图像的设备和方法		
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当前申请(专利权)人(译)	MEDISON CO.，LTD.		
[标]发明人	HYUN DONG GYU		
发明人	HYUN, DONG GYU		
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代理机构(译)	LORENZ，MARKUS		
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外部链接	Espacenet		

摘要(译)

本发明的实施例可以提供用于显示基于二维超声图像形成的三维超声图像的设备和方法。用于显示超声图像的方法包括：a）基于从目标对象反射的超声回波信号形成和存储多个连续的2维超声图像，每个所述连续的2维超声图像被分配序列号; b）选择N个具有连续序列号的二维超声图像; c）叠加N个二维超声图像以形成三维超声图像; d）从N个二维超声图像中形成指示第一个二维超声图像的流向标记; e）在屏幕上显示三维超声图像和流向标记; f）从N个二维超声图像中去除第一个二维超声图像; g）选择第（N + 1）个2维超声图像并将所选择的2维超声图像叠加到叠加的2维超声图像上; h）重复步骤c）至h）多达预定数量。

FIG. 7