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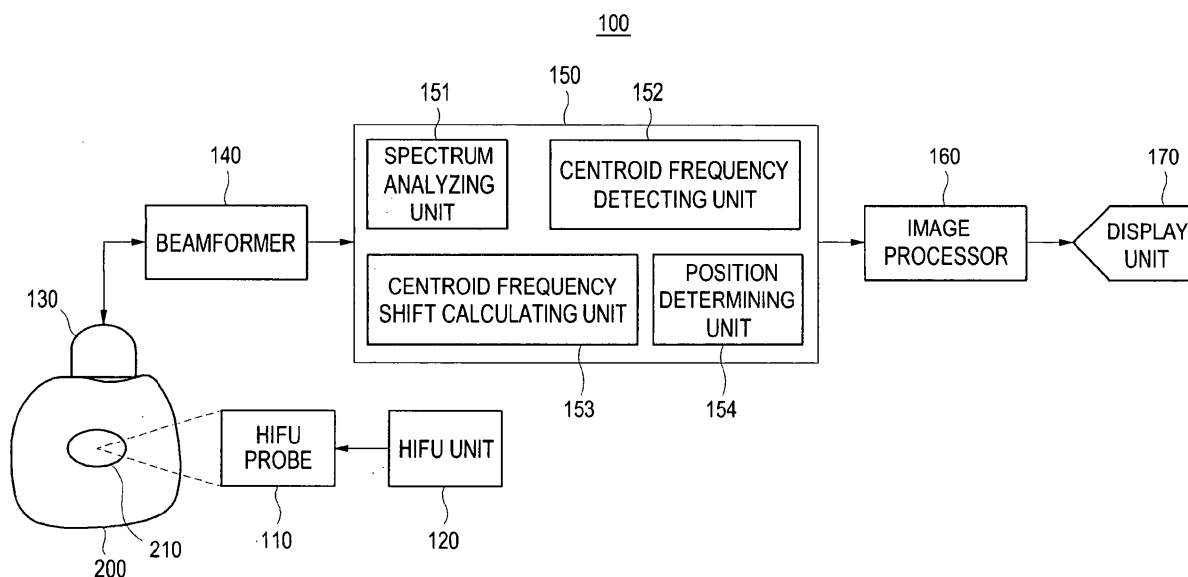
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(54) **Ultrasound diagnostic system and method of detecting a lesion**

(57) An ultrasound diagnostic system and method of detecting thermal diffusion due to injection of high intensity focused ultrasound (HIFU) are disclosed. According to the embodiments of the present invention, first receive signals are obtained by ultrasound echo signals from the lesion that did not undergo the HIFU and second receive

signals are obtained by ultrasound echo signal from the lesion that underwent the HIFU. Center frequencies of the first and second receive signals are detected, while center frequency shift between the first and second receive signals are calculated. A center frequency shift image is formed with the center frequency shift.

FIG. 1





EUROPEAN SEARCH REPORT

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EP 06 02 6933

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A	US 2005/203399 A1 (VAEZY SHAHRAM [US] ET AL) 15 September 2005 (2005-09-15) * paragraph [0003] - paragraph [0006] * * paragraph [0053] - paragraph [0058] * * paragraph [0060] * * paragraph [0082]; figures 1A-1C, 2, 14 *	1, 3, 7	INV. A61B8/08 ADD. A61N7/02
A	WO 2004/075987 A1 (KONINKL PHILIPS ELECTRONICS NV [NL]; FRASER JOHN [US]) 10 September 2004 (2004-09-10) * page 2, line 19 - line 28 * * page 3, line 13 - page 5, line 22; figure 1 *	1, 2, 7	
A	BEVAN P D ET AL: "B-scan ultrasound imaging of thermal coagulation in bovine liver: frequency shift attenuation mapping", ULTRASOUND IN MEDICINE AND BIOLOGY, NEW YORK, NY, US, vol. 27, no. 6, 1 June 2001 (2001-06-01), pages 809-817, XP004247076, ISSN: 0301-5629, DOI: DOI:10.1016/S0301-5629(01)00380-5 * Abstract; page 809, right column, line 5 to page 810, right column, line 2; *	1, 4	
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A	US 4 574 635 A (T HOEN PIETER J [US]) 11 March 1986 (1986-03-11) * column 1, line 36 - column 2, line 4 * * column 3, line 7 - line 68; figures 1-4 *	1	
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 18 November 2010	Examiner Kempin, H
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
ON EUROPEAN PATENT APPLICATION NO.**

EP 06 02 6933

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专利名称(译)	超声诊断系统和检测病变的方法		
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优先权	1020050131293 2005-12-28 KR		
其他公开文献	EP1803403B1 EP1803403A2		
外部链接	Espacenet		

摘要(译)

公开了一种超声诊断系统和检测由于注入高强度聚焦超声 (HIFU) 引起的热扩散的方法。根据本发明的实施例, 通过来自未经历HIFU的病变的超声回波信号获得第一接收信号, 并且通过来自经历HIFU的病变的超声回波信号获得第二接收信号。检测第一和第二接收信号的中心频率, 同时计算第一和第二接收信号之间的中心频率偏移。以中心频移形成中心频移图像。

FIG. 1

