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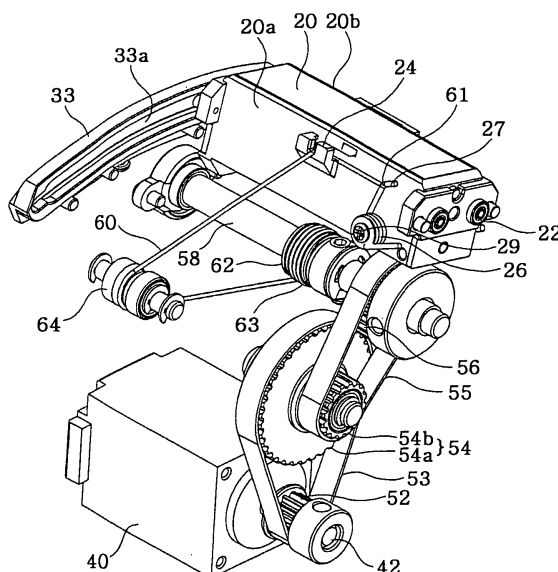
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(54) **Device for moving a transducer of an ultrasonic probe**

(57) The present application relates to a device for moving a transducer (20) of an ultrasonic probe (10) in an ultrasonic diagnostic apparatus for acquiring a 3-dimensional ultrasound image. A motor (40) for generating power to move the transducer and guide rails (33) for guiding the movement of the transducer are mounted to a frame (30). The rotational force of a driving shaft (42)

of the motor is transmitted to a driven shaft (58) through pulleys (52,54,56) and belts (53,55). A portion of a wire (60) is wound around the driven shaft and both ends of the wire are fixed to two opposing surfaces (20a,20b) of the transducer. A reel (62) having a spiral groove (63) on the peripheral surface is coupled to the driven shaft. The wire is wound along the spiral groove.

Fig. 3





EUROPEAN SEARCH REPORT

 Application Number
 EP 05 02 4044

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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Y	* figures 3,4 * * column 6, line 27 - column 7, line 39 *	7-8	ADD. A61B8/14
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Y	US 4 346 867 A (DICK DONALD E ET AL) 31 August 1982 (1982-08-31) * figures 2,3,7-10 * * column 6, line 40 - column 6, line 45 * * column 7, line 29 - column 7, line 38 * * column 9, line 64 - column 11, line 17 *	7-8	
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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 30 June 2009	Examiner Knoll, Bernhard
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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 EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 05 02 4044

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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专利名称(译)	用于移动超声波探头的换能器的装置		
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当前申请(专利权)人(译)	MEDISON CO. , LTD.		
[标]发明人	HWANG WON SOON		
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代理机构(译)	SCHMID , WOLFGANG		
优先权	1020050064257 2005-07-15 KR		
其他公开文献	EP1744178A2		
外部链接	Espacenet		

摘要(译)

本申请涉及一种用于在超声诊断设备中移动超声探头（10）的换能器（20）以获取三维超声图像的设备。用于产生动力以移动换能器的电动机（40）和用于引导换能器运动的导轨（33）安装在框架（30）上。电动机的驱动轴（42）的旋转力通过滑轮（52,54,56）和皮带（53,55）传递到从动轴（58）。线（60）的一部分围绕从动轴缠绕，并且线的两端固定到换能器的两个相对表面（20a，20b）。在外周表面上具有螺旋槽（63）的卷轴（62）连接到从动轴。线沿着螺旋槽缠绕。

Fig. 3

