

(19) (KR)  
(12) (A)

(51) . Int. Cl. 7 (11) 2001 - 0089766  
A61B 8/00 (43) 2001 10 08

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(22) 2001 07 03  
2001 07 03  
(86) PCT/EP2000/10365 (87) WO 2001/33251  
(86) 2000 10 19 (87) 2001 05 10

(30) 09/433,124 1999 11 03 (US)

(71)

1

(72) , . 5656, 6

(74)

1

(54)

(ultrasonic diagnostic imaging system), , , 3  
(volumetric) .

3	가 3				3
3		.			
			2		
		.			
가		,	(volume)		(interest)
	(sweep)	.	.	5,353,354	5,474,073
,	가	.	.	x	y
		.	가		가
z		.		,	,
(wedge)	가	.	가	,	,
		.	가		
		.	가		

2 (pivot) (rock) (fan)  
· 5,487,388 . ( )  
2 , (fanning) (body)

3  
가  
McCann, the Proceedings of the IEEE, vol. 76, no. 9(1998 9 ),  
1063 - 73 " Multidimensional Ultrasonic Imaging for Cardiology"  
가 (trans - thoracically)  
가  
1.8  
5,181,514  
TEE(transesophageal echocardiography)  
TEE  
가  
가 3

McCann, . McCann ( .  
hole filling)

McCann, , , 10  
McCann . McCann  
가 (homogeneous) , (artifact) .

- 1
- 2 (volumetric)
- 3
- 4a
- 4b
- 5a
- 5b

(10) (12) . (10) (22) .  
(20) . (20) . (shaft),  
(22)가 (20) . 2D ,  
, (body) (2)

$$(20) \quad (24) \quad (26) \quad (\text{conversion})$$

3D (rendering) (30) 3D  
3D , ,  
D 3D , 3D  
3D , 3D (40) 3D

,	,	3	,	,	4
,	(54)	(64)	14	,	,
,	(50)	(66)	4	,	,

5a (62) (70) (phased) (62) , (12) (12) (12) (rib) (12) 3  
 , 5,487,388 , , , (54) (62) , , 5a , , 5b , (70) (12) ,  
 ( ) ,

)

. 3

(

(57)

1.

2.

1

2 ,

3.

1

4.

3

5.

4

6.

5 ,

7.

5 ,

(phased) ,

8.

,  
,

3

3D

,

3

3D

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9.

8

,

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10.

9

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11.

10

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12.

10

,

(phased array transducer)

,

13.

9

,

2D

,

,

14.

8

,

3D

(rendering processor)

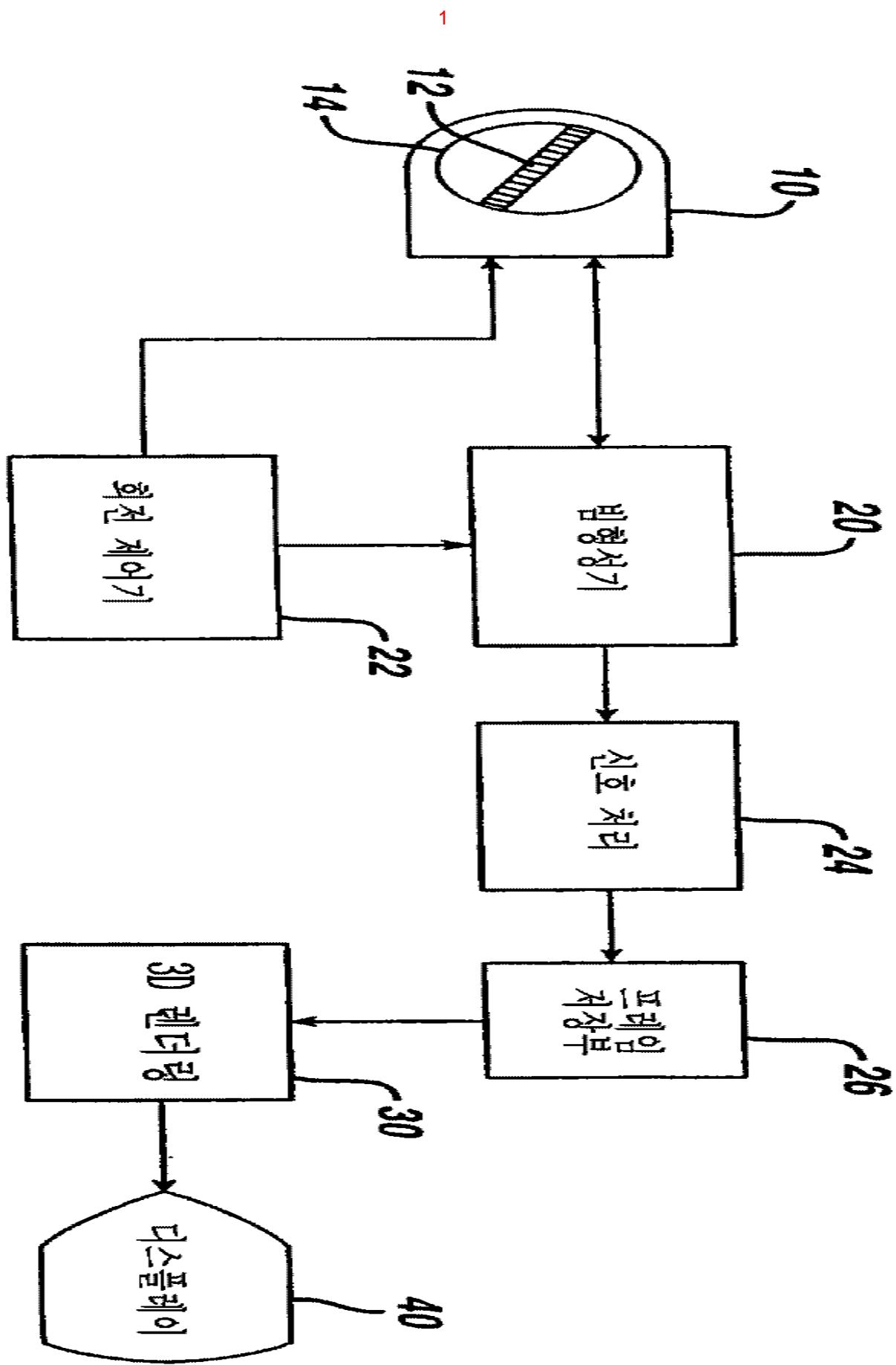
,

15.

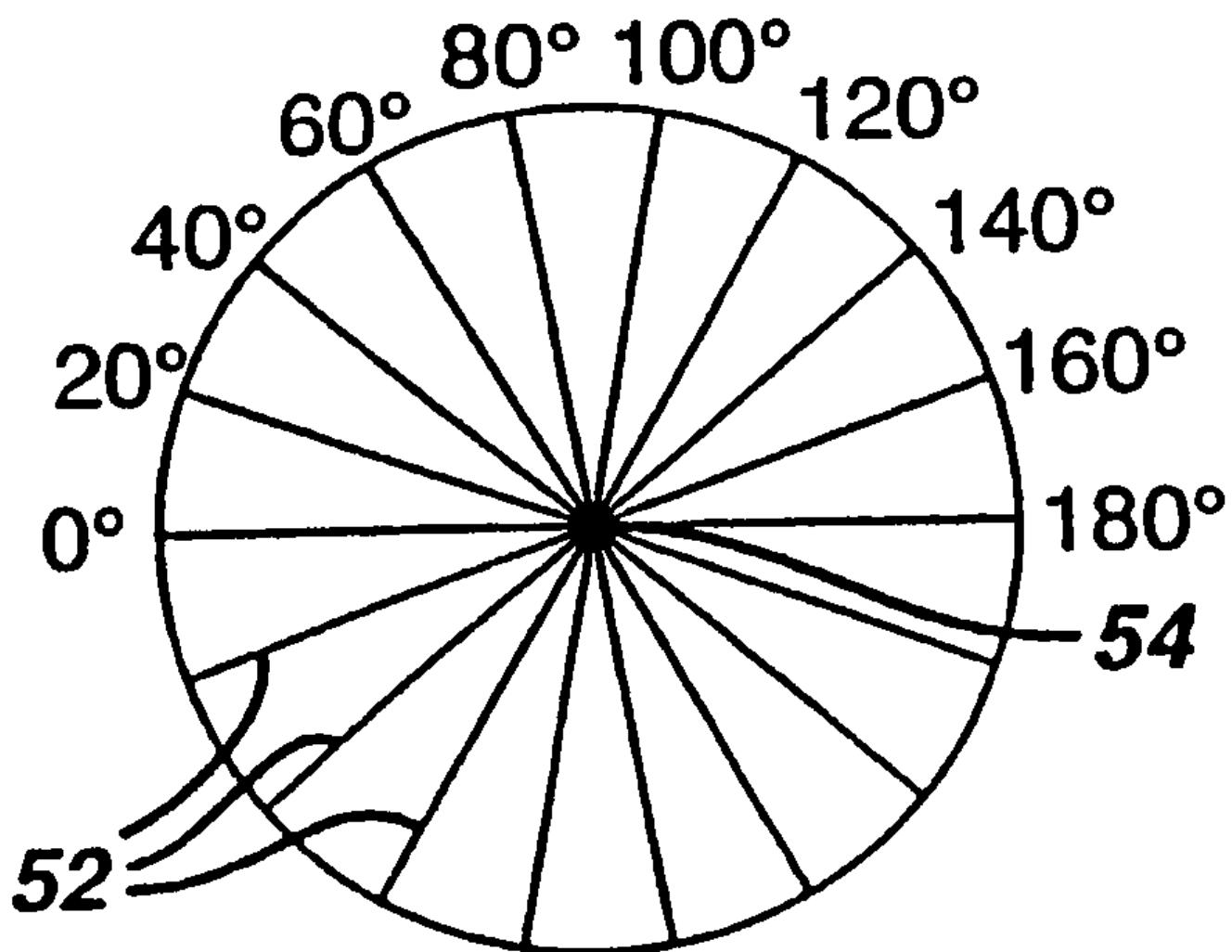
8

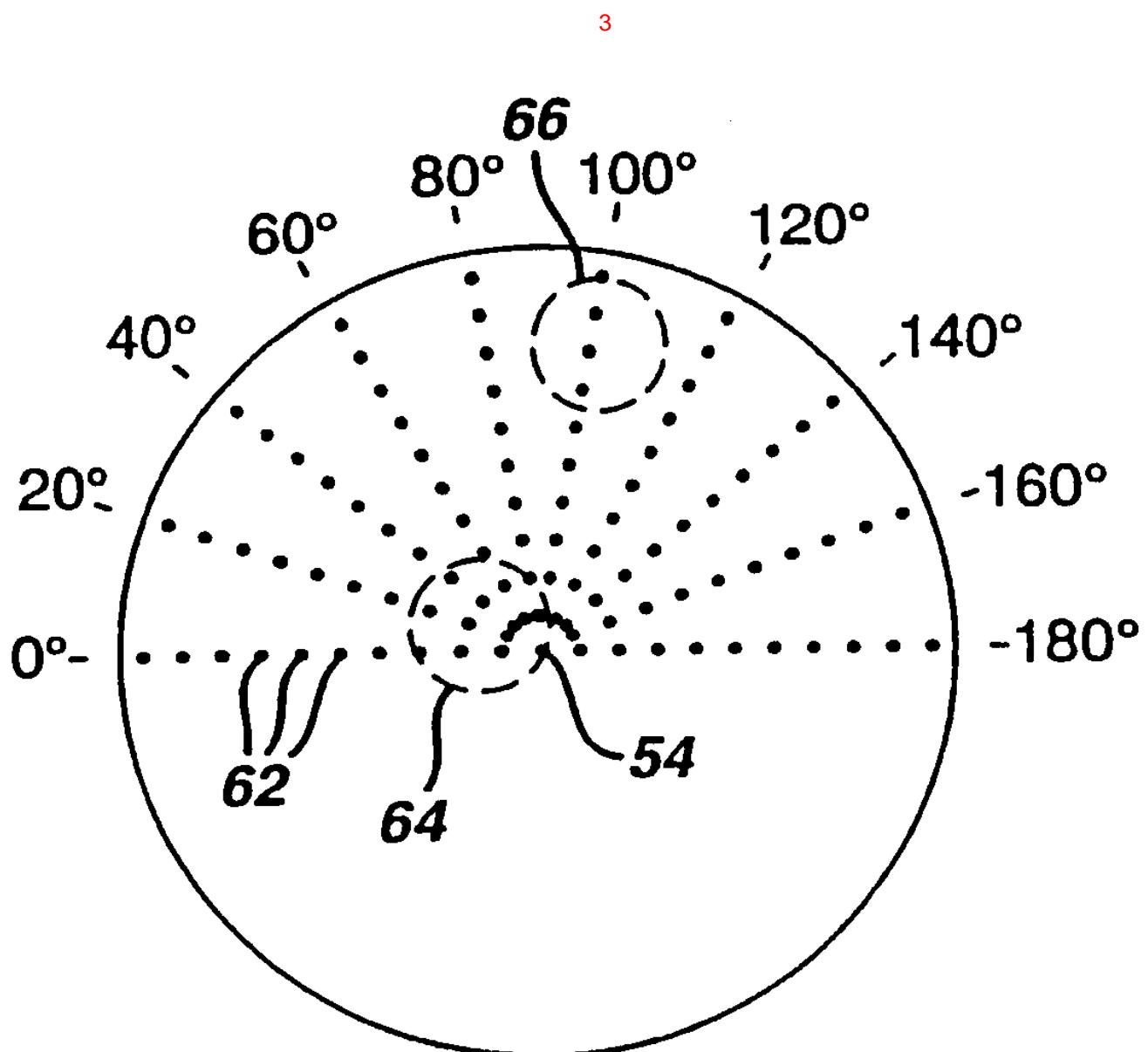
, 3D

,

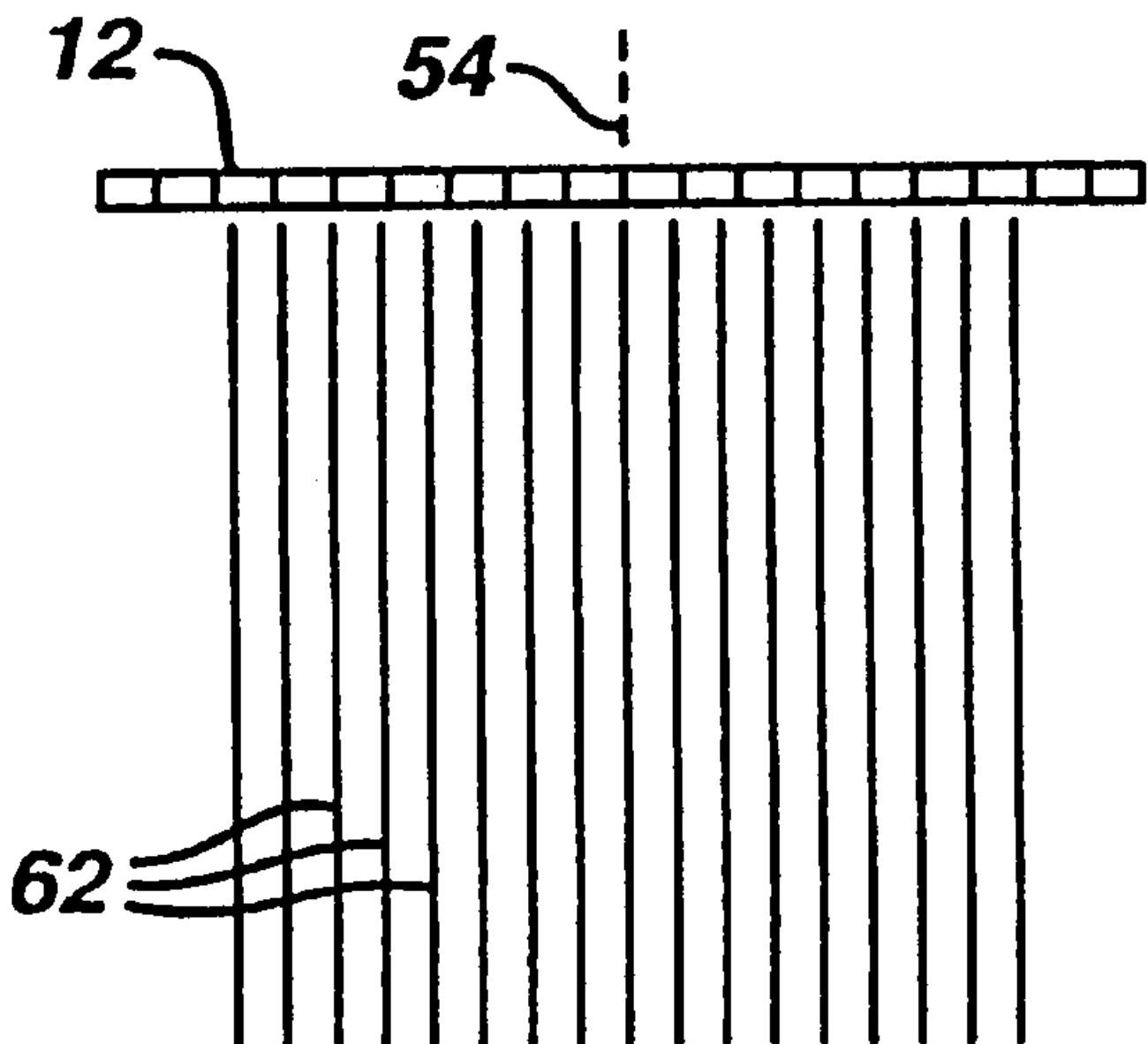


2

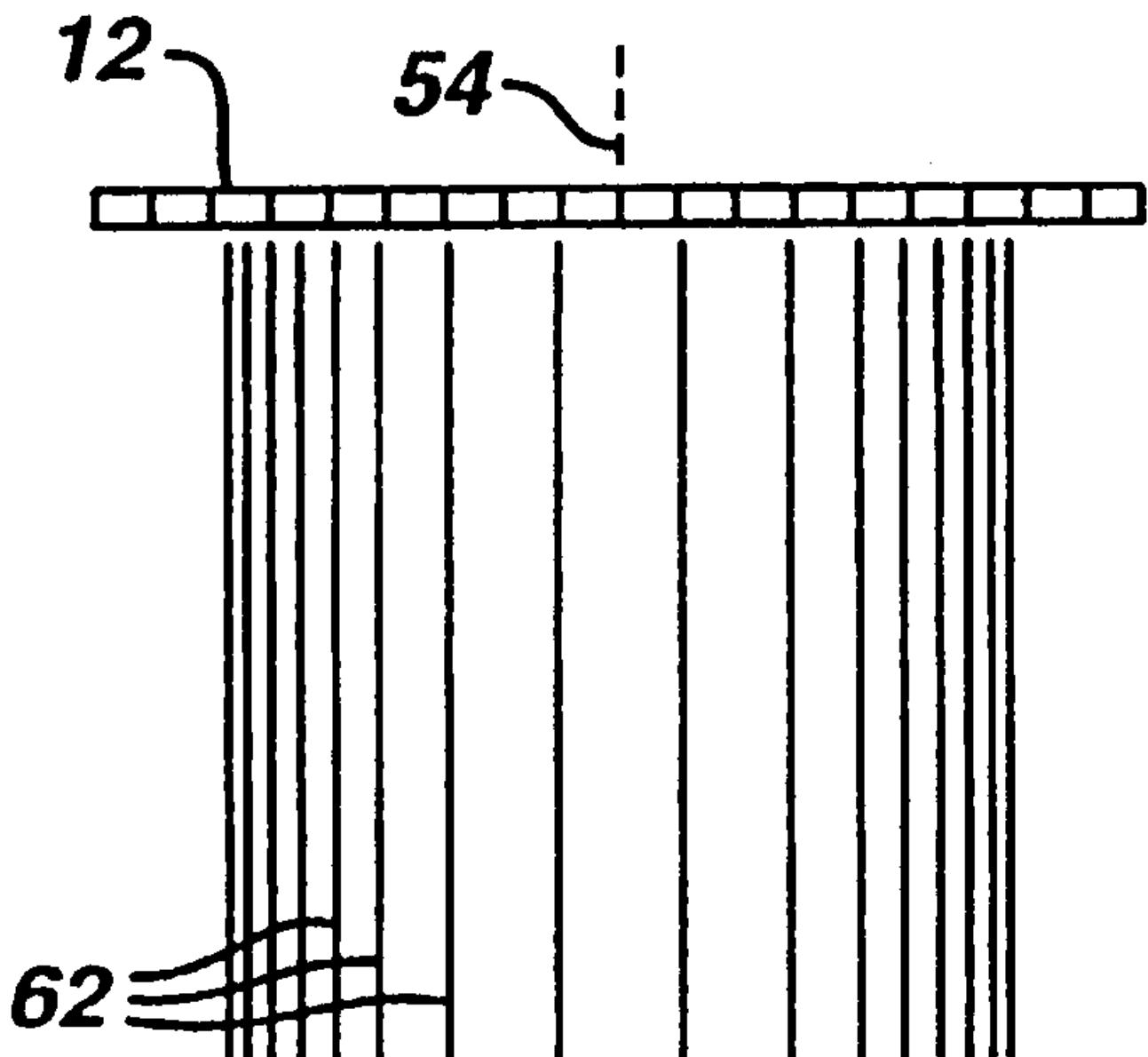


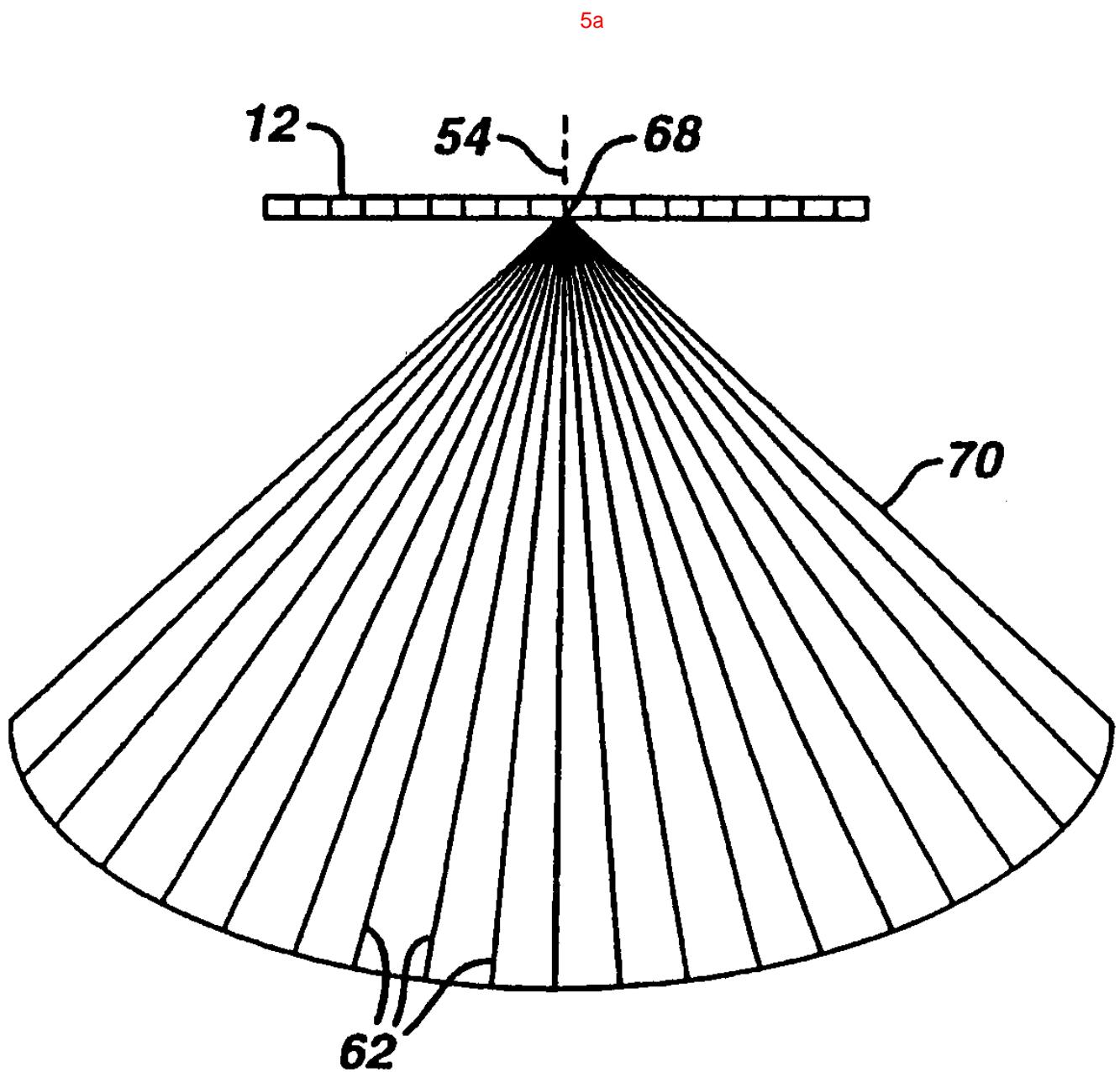


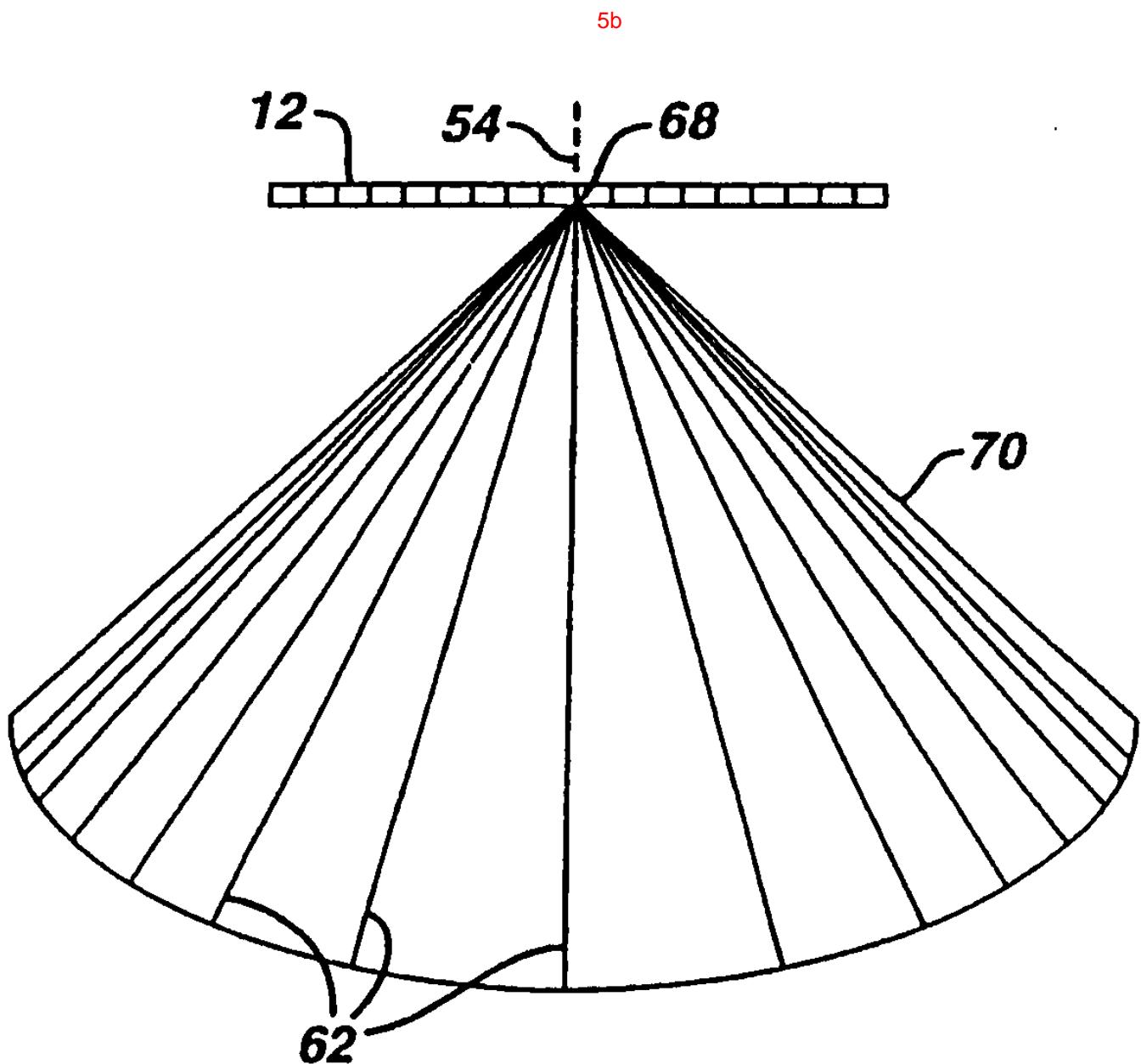
4a



4b







专利名称(译)	恒定体积度量扫描超声诊断成像系统		
公开(公告)号	<a href="#">KR1020010089766A</a>	公开(公告)日	2001-10-08
申请号	KR1020017008508	申请日	2000-10-19
[标]申请(专利权)人(译)	皇家飞利浦电子股份有限公司		
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IPC分类号	A61B8/08 A61B8/14 G01S7/52 G01S15/89 G06T1/00 G06T17/40 G10K11/34 G10K11/35 A61B8/00		
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外部链接	<a href="#">Espacenet</a>		

#### 摘要(译)

描述了超声诊断成像系统和方法，用于更均匀地扫描3D超声图像的体积度量区域。可转向扫描光束的图像板围绕延伸通过体积度量区域的轴旋转，其中光束在比更远离轴的光束更宽的轴附近。扫描光束的不均匀间隔在扫描的体积度量区域上以相对较小的不同采样密度发生。本发明的方法可以在1D和2D阵列换能器中实现。 图5b - 1 - 指数方面  
传感器，阵列，光束，体积度量区域，成像系统

