

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

(51) 。 Int. Cl. ⁷
A61B 8/00

(11)
(43)

2001 - 0089766
2001 10 08

(21)	10 - 2001 - 7008508
(22)	2001 07 03
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(86)	PCT/EP2000/10365
(86)	2000 10 19

(87)

WO 2001/33251
2001 05 10

[illegible]

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

(72) $\frac{1}{6} \times 5656 = 942\frac{4}{6}$

(74)

⋮

(54)

3

1D 2D

5b

, , , ,

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

3 가 3 , 3
3

2

가 (sweep) (volume) (interest)
5,353,354 5,474,073
, 가
x y 가
(wedge) 가 z 가 (swept)
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
가 (trans - thoracically)
가
1.8 가
5,181,514 TEE(transesophageal echocardiography)
TEE 가
가 3

McCann ,
hole filling) , McCann (

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

1

2 (volumetric)

3

4a

4b

5a

5b

1, 가 (10)
 (12)가 (12) (14)
 (22) 1D
 5,402,793 TEE McCann
 가 가 (trans - thoracic) 가 1D
 가 2D, 2
 2 (elevation) (azimuth)

(10) (12) (20) (10) (22) (22)가 (20) (20) (shaft), (2 (0) (body) (20) (24) (26) (conversion) 3D (rendering) (30) 3D 3D 3D 3D 3D 3D 3 (40) 2 (52) (52) (edge - on) (50) 20 180 가 9 (12) 20 가 1 (10) 2 (54), 가 3 (50) 3 2 가 0 180 21 (62) 0 180 (viewed end - on), (62)

, , 3 (54) (64) 14 (66) 4
 (50) ,
 .
 4a , (12) (62) 가 (62)
 (54)
 3 (62) 4b
 (12) (54)
 , 2
 ,
 . 3
 3 가 , 3
 (interpolation) (filling)
 (aliasing) 가
 (artifact) (artifact)
 .
 5a (62) (70) (apex; 68)
 (phased) (12) .
 (62) (12)
 , 5,487,388 , (rib)
 (54) , (62) (12)가 , 3
 , 5a ,
 5b , (70)
 (12)가
 ,
 () .
 2 2
 , 5b 2D , 2D
 , 2D
 (68) , /
 . (54)
 ,

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(57)

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7.

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(phased)

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3D

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3

3D

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9.

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11.

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12.

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(phased array transducer)

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13.

9

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2D

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14.

8

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3D

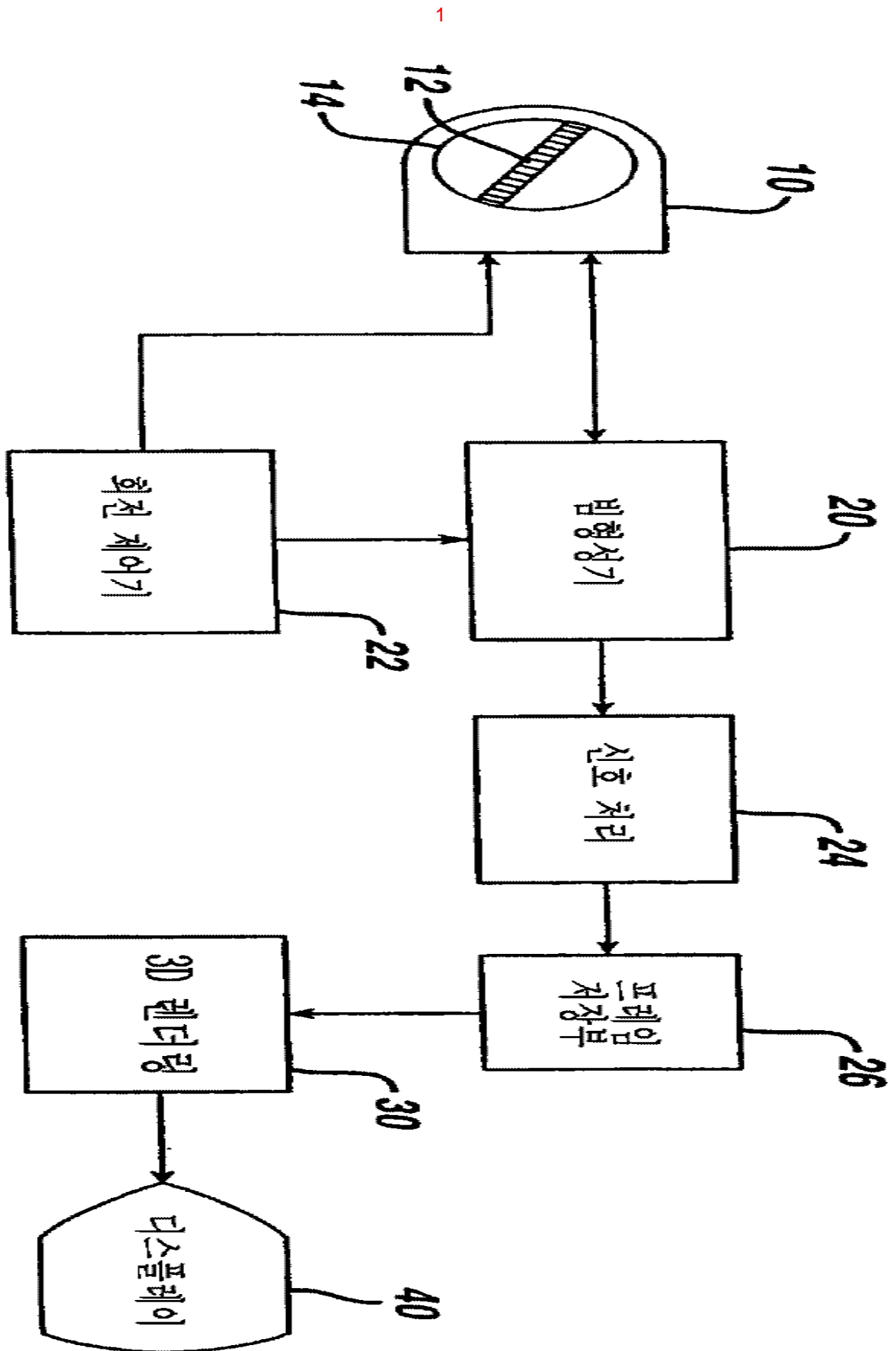
(rendering processor)

,

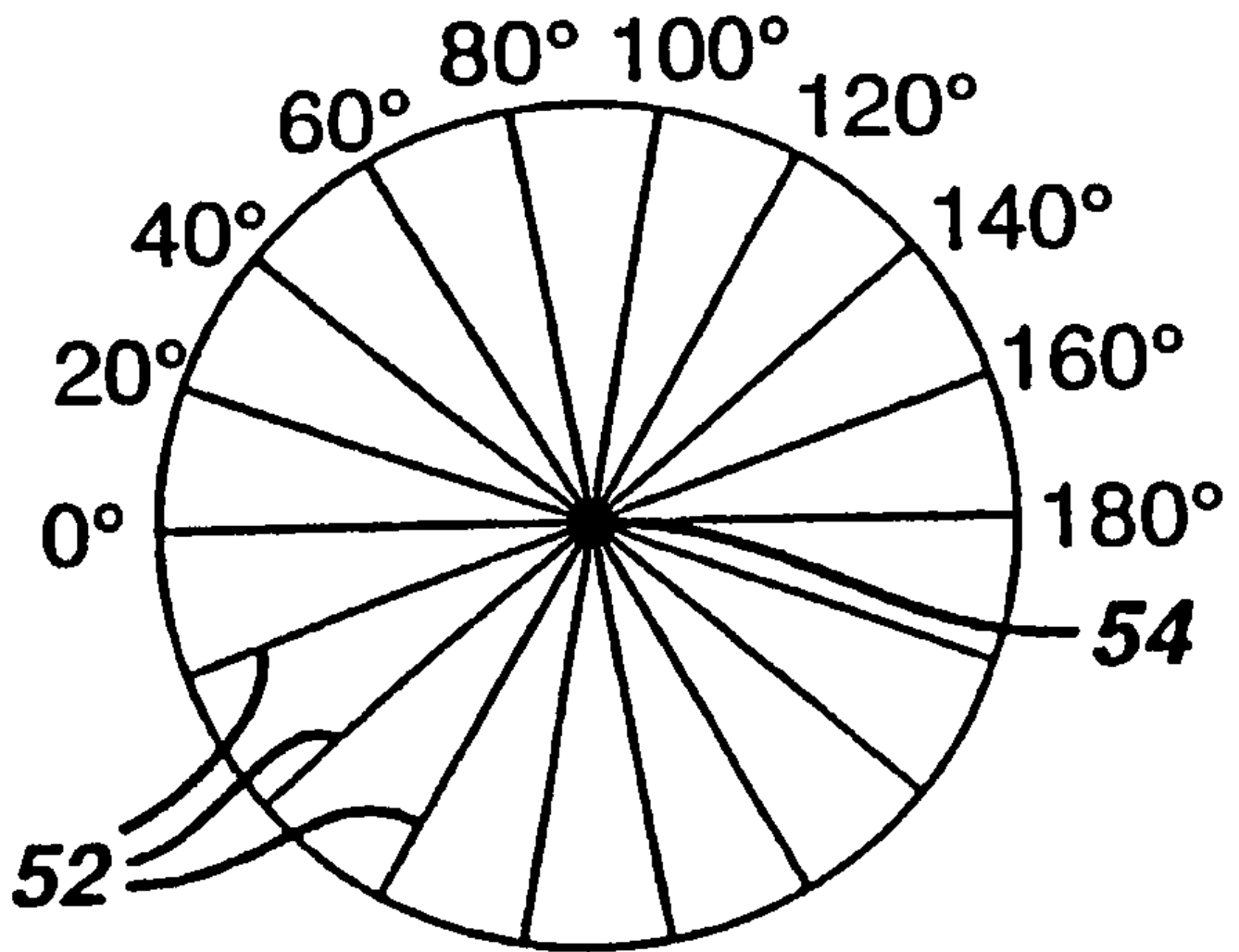
.

15.

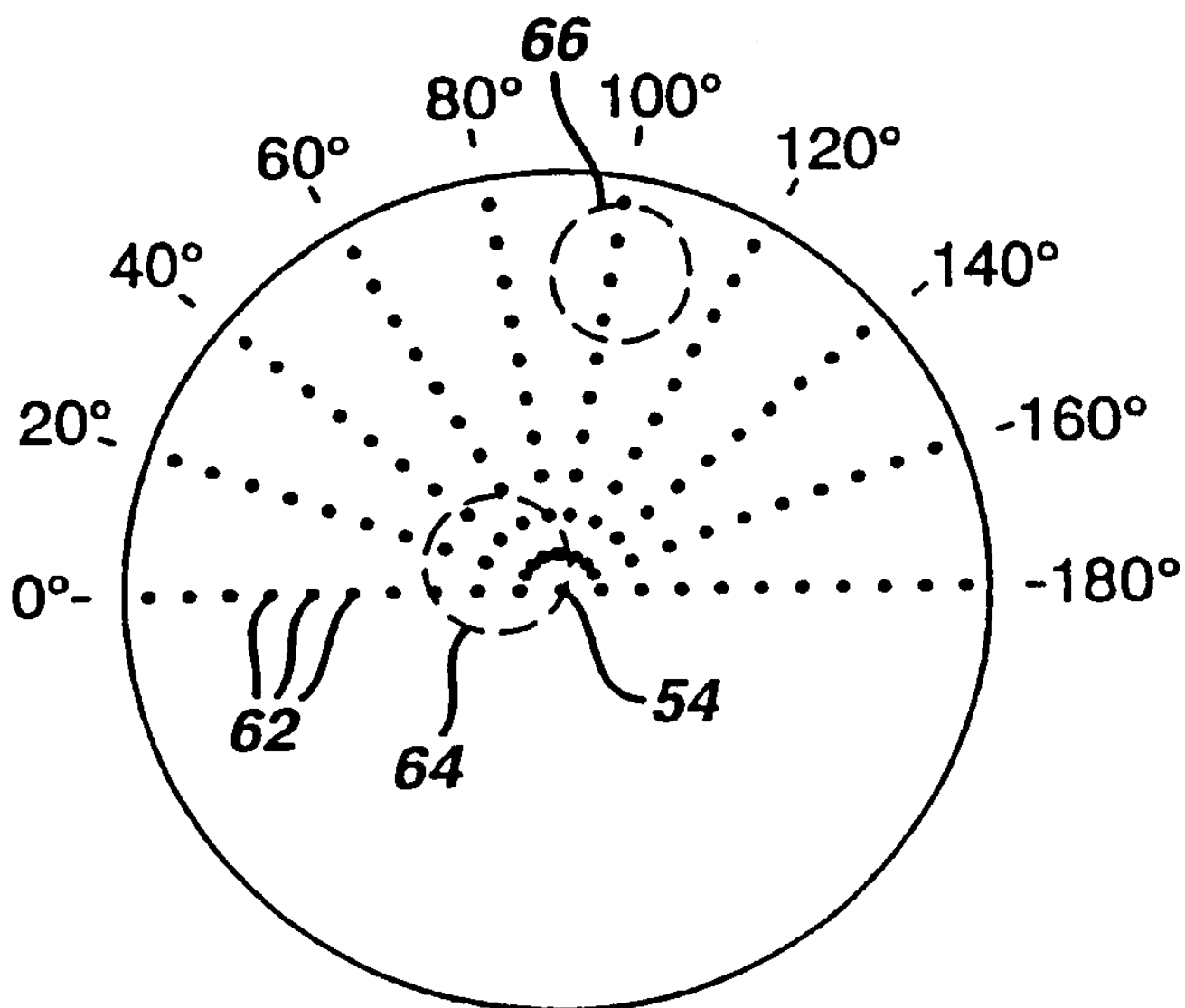
8 , 3D , .



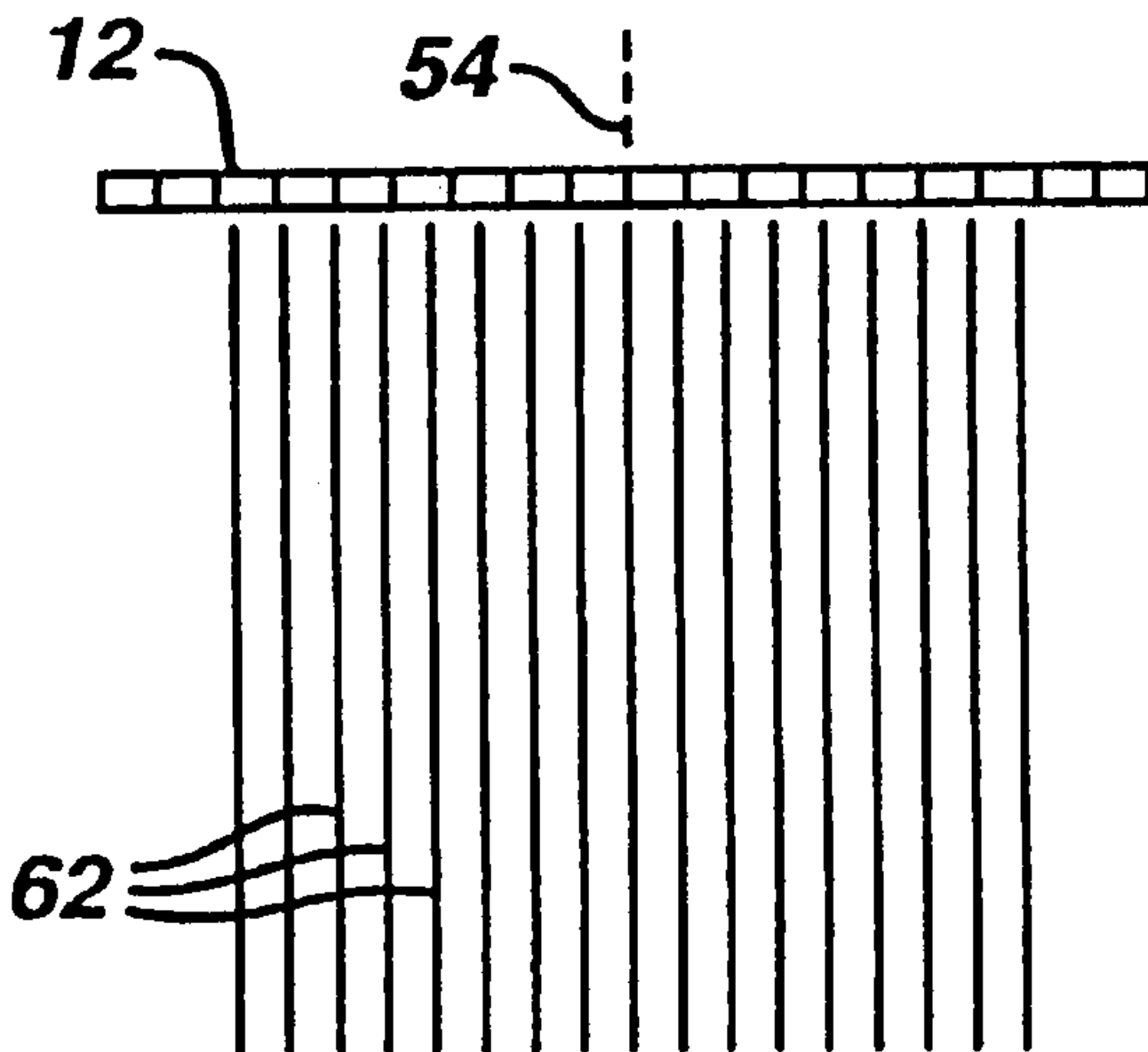
2



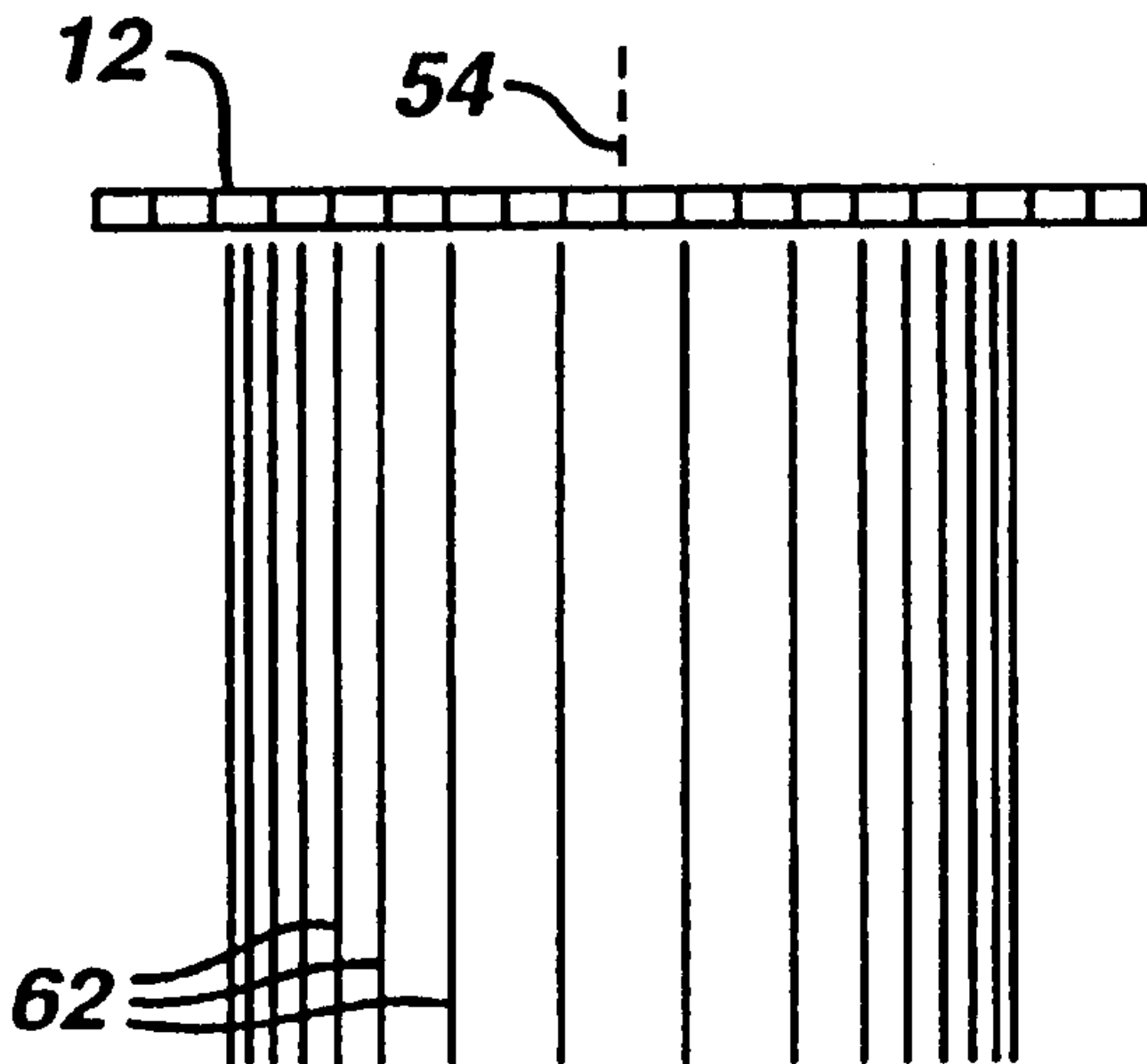
3



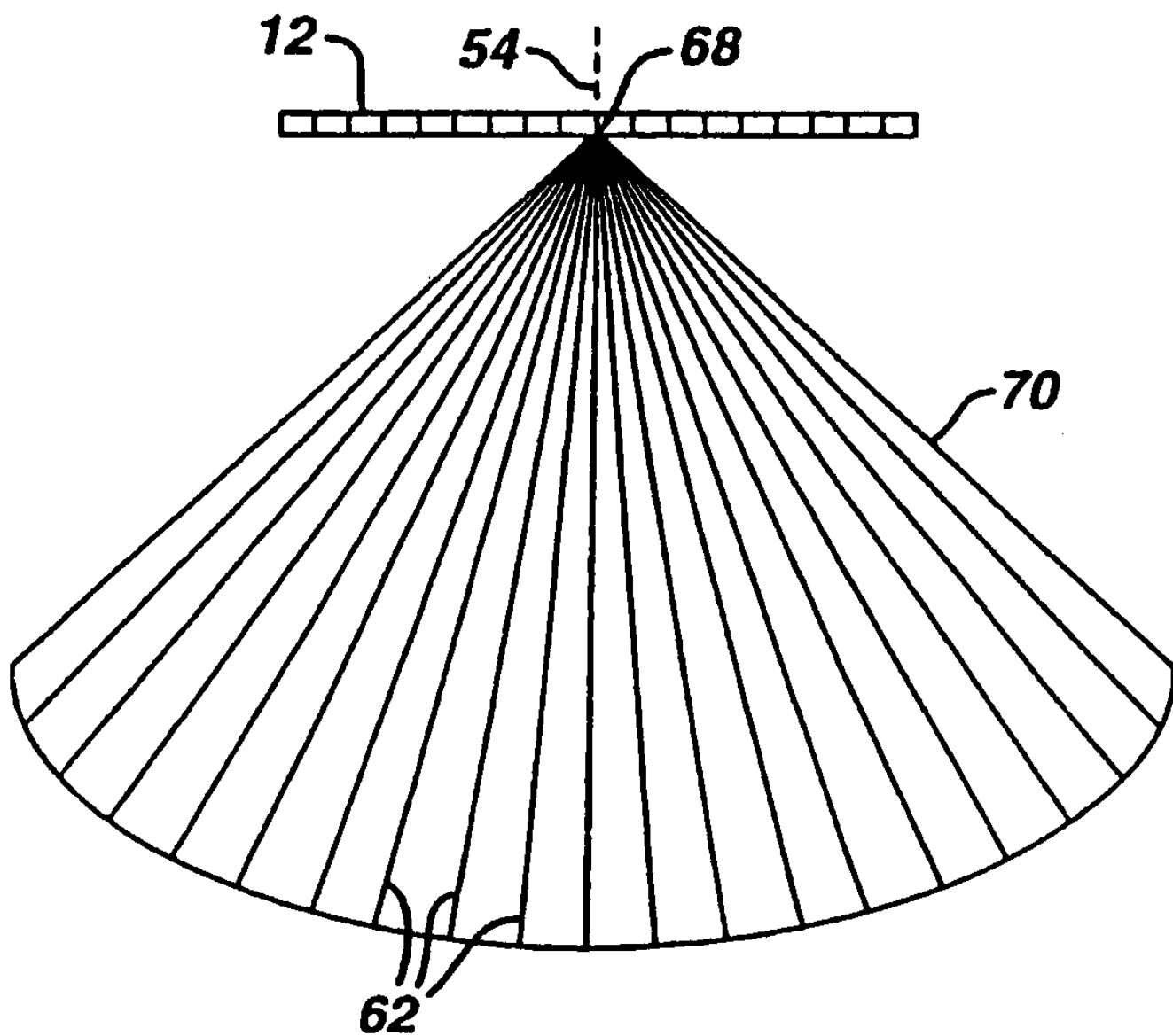
4a



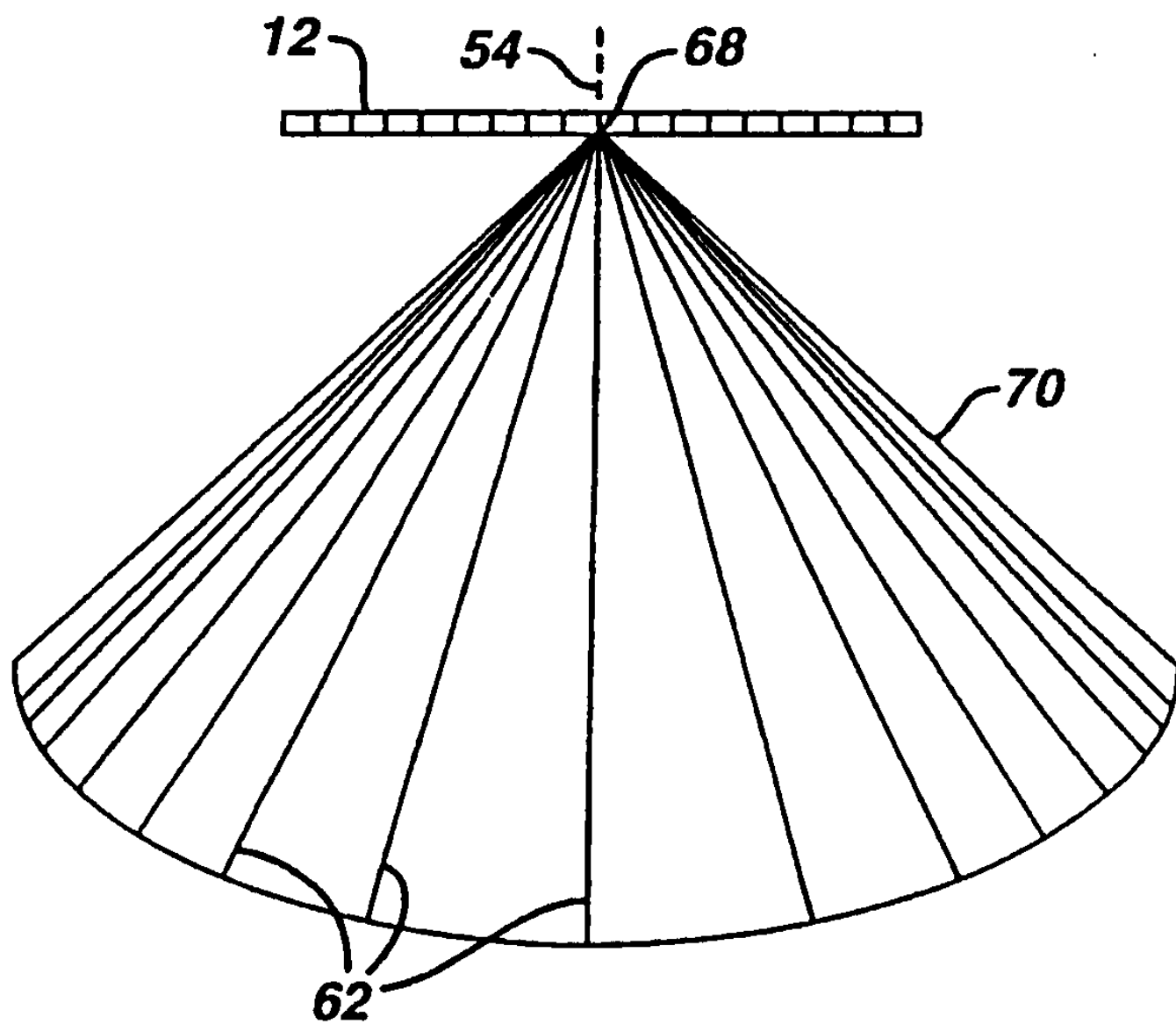
4b



5a



5b



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	KR1020010089766A	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		
申请(专利权)人(译)	科宁欣克利凯恩菲利普斯日元.V.		
当前申请(专利权)人(译)	科宁欣克利凯恩菲利普斯日元.V.		
[标]发明人	LENNON DANIELJ		
发明人	LENNON,DANIELJ.		
IPC分类号	A61B8/08 A61B8/14 G01S7/52 G01S15/89 G06T1/00 G06T17/40 G10K11/34 G10K11/35 A61B8/00		
CPC分类号	A61B8/14 A61B8/483 G01S7/52046 G01S7/52085 G01S15/8915 G01S15/894 G01S15/8993 G10K11/346 G10K11/355 Y10S128/916		
代理人(译)	李，何炳 李贝尔 申铉MOON		
优先权	09/433124 1999-11-03 US		
外部链接	Espacenet		

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测量区域。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

