

(19)
(12)

(KR)
(A)

(51) 。 Int. Cl.⁷
A61B 8/00

(11)
(43)

2003-0084774
2003 11 01

(21)
(22)

10-2003-0026367
2003 04 25

(30)

JP - P - 2002 - 00125813 2002 04 26

(JP)

(71)

53188

3000

(72)

가 4 7-127

(74)

:

(54)

(post processing) ,

(33 - 40) ,
(33, 37) ,
(44, 46) .

1

1 ,

2 ,

3 (ultrasonic transducer array) ,

4 (acoustic line scan) ,

5 (image processing section) ,

6 ,
 7 ,
 8 ,
 9 ,
 10 ,
 11 ,
 12 ,
 13 ,
 14 ,
 15 ,
 16 ,
 17 ,
 18 ,
 19 ,
 20 .

5 : 7 :

31 : 33 :

33' : 35 :

36 : 36' :

37 : 39 :

40 : B 44 :

46 : 47 :

48 : 49 :

50 : 57 : 가

67 : (articulated arm) 140 : CPU

142 : (bus) 144 :

146 : 148 :

150 : 152 : DSC

156 :

158 :

tensity)

(scan) , (echo)
B-

(in

(acoustic line scan)

(tomographic image)

(post-processing)

가

가

(transceiver)

(hand instrument)

가 ,

가

가

(magnetic sensor)

가

가

[illegible]

(300) (33) 3, 32 × 32 (square matrix) (300) 1,024
 (ultrasonic vibrator)(302) , (302) PZT([Pb-Zr-Ti]) ,
 , 32 × 16 (33)

(36) 4 (cone) (303)()
 (300) (303) z

(pyramidal scan) (36)
 (33) (36)

(36) B (40) (36)
 B (40) B (40) B , B
 (40) B
 (33), (36) B (40)

B (40) (44) (44) B (40)
 B

(44) 5 (CPU)(140) CPU(140) (bus)(142)
 (144), (146), (control section interface)(148), (1)
 52), (DSC)(154), (156) (158)

(146) CPU(140) CPU(140)

CPU(140) (146) (144) (148) , (4
 8) CPU(140)

B (40) B (152)
 DSC(154) (scan-converted), (156)
 (156) (158) (46)

(44) (46) (46) (46) CRT[가 (cathode ray
 tube)] (46) (46) (44) (46)

(36), B (40), (44) (46) (48) (48)

(48) (notification signals)가 B (48) (48)

(48) (37) 가 (48) (33)

(48) (operating section)(50) (50)
 (48) (50) (pointing device)

6, (300') 가 (300') 7, 128
 (302)
 (33') (36') (36') (33')
 (36') 8 (202) (206) ,
 (200) z (sector s
 can)
 (apertures)가
 9 (202) (204) (200) (
 z 가 (linear scan)
 206) x ,
 가 (convex arr
 ay) (202) (206) (204)
 , (200) , 10 (convex scan)
 (33') (206)
 33') (subscan) (main scan) (33') (
 (mechanism)
 (42)
 , (spatial resolution)
 (33'), (36') (42)
 (33'), (42), (36') B (40)
 가 (902) 11
 (156)
 12 (310)
 (310) x, y z . x y ,
 (33 33') (302) . z
 (33')가 가 (33)가
 (33') x y . x
 . y
 가 (310) 가 가 13
 가, (33) (pyramidal scan) 14
 15
 (904)
 , y (310)

(906) 가 .

(908) , .

(7) (33')

(33') (48) (48) (33') (50)

12 16 (310') (310') (310') x, y z (310') (310')

(310) 가 10 cm × 10 cm × 10 cm , 10 cm × 10 cm × 10 c

m

(910) 가 .

(33') (33') 가, (7)

(310')

가 17 (33')

(310') y'-z' (310') y'-z'

(33')

(310')

10') y'-z' (33') (310') (310') (310') (310')

0') z' (310') , x' (33')

(912) (48) (33') (48) (44)

(44)

(33')가 (312) (312) = 0 (312) (33')

(50) (914) z'

가 (33')

가

(910) (916) (910)

(910)

(310') (33')

, x', y' z'

가 , 가 .

가 ,

(33') (310') ,

가 (simulating)

가 가

(direction indicator)

(33') 가

(37)가

가 18

18 (33 33') (47)가 (49)

(light spot detection section)(49)

가 ,

(33) (47)

(33)

(31)

가 19

(33) 가 (57)가 가 (57) 가 (33)

(35) (31) (48) (31)

) 가 가

(33)

가 20

20 (33) (67) (67) (31) (31)

가 (33)

가

가

(57)

1.

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2.

1

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가

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3.

2

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4.

3

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가

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5.

2

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6.

5

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가

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7.

2

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가

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8.

7

,

가

가

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9.

2 ,

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2 10. ,

가

.

1 11. ,

.

1 12. ,

.

1 13. ,

가

.

1 14. ,

가

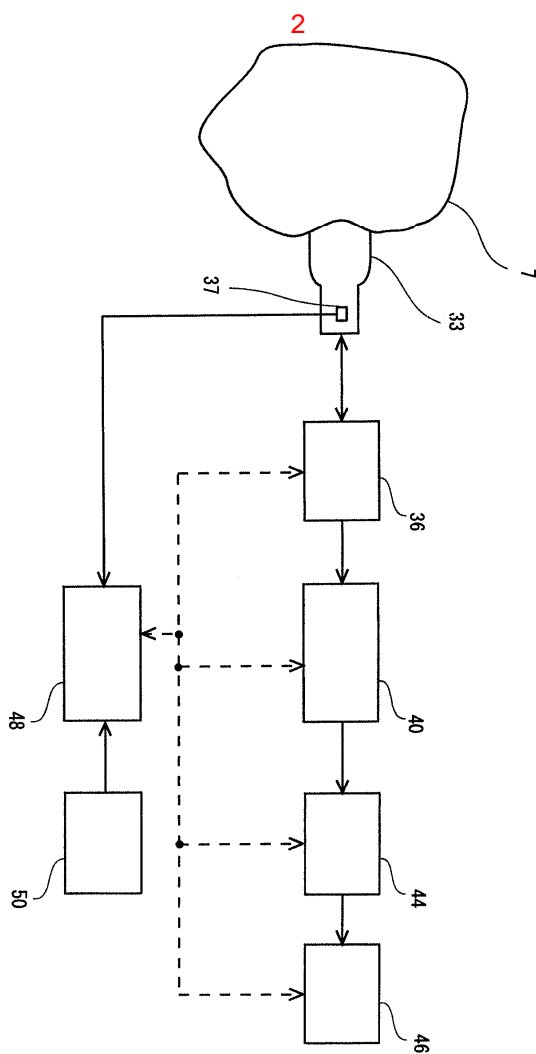
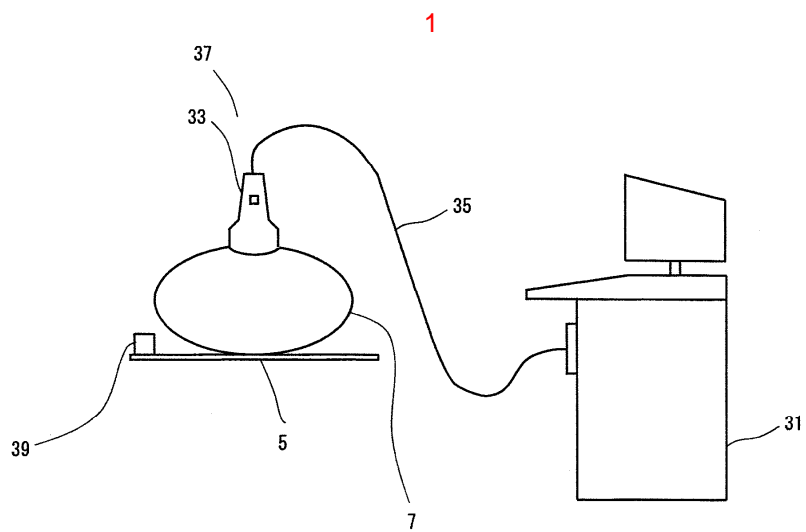
.

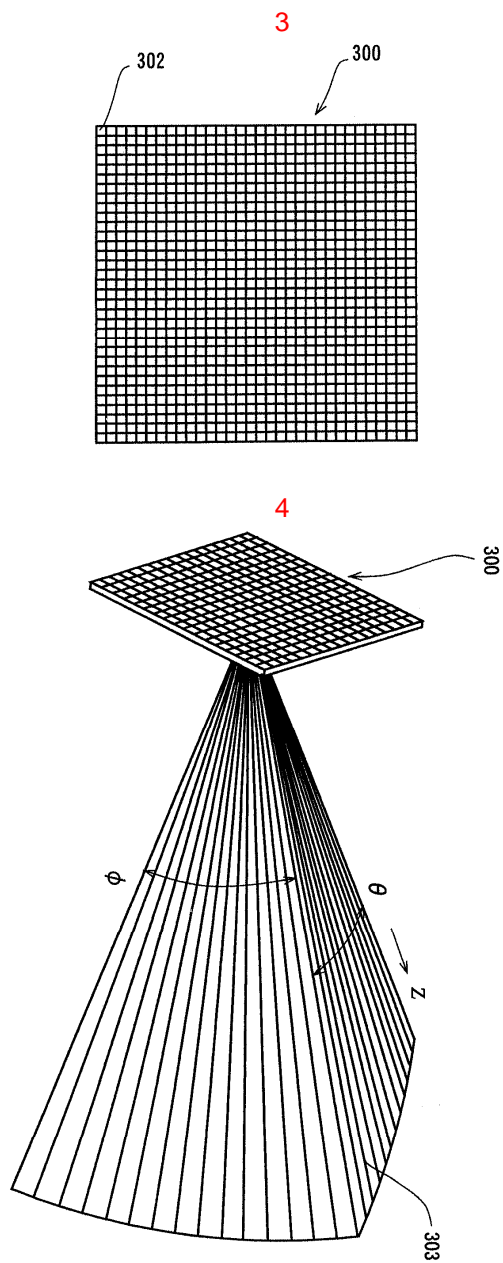
1 15. ,

.

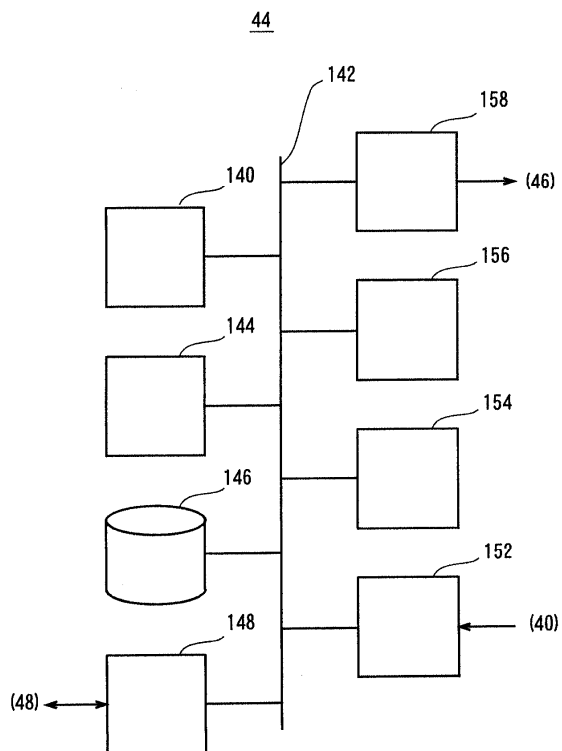
1 16. ,

.

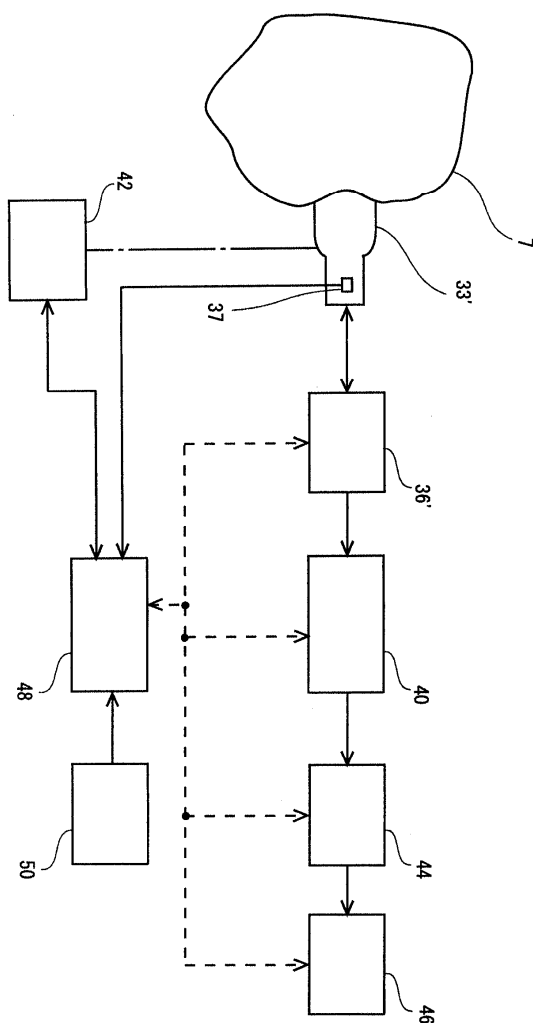


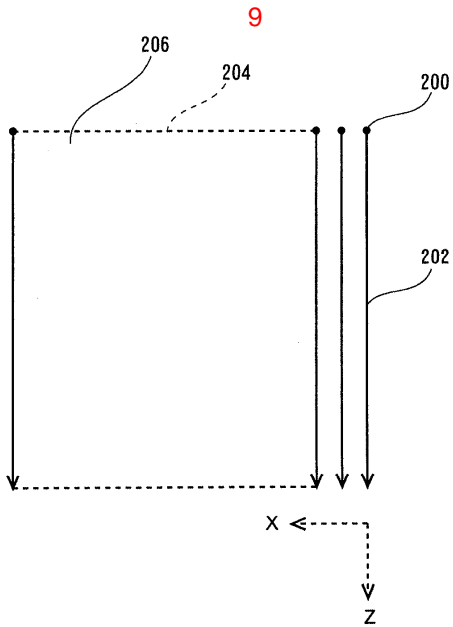
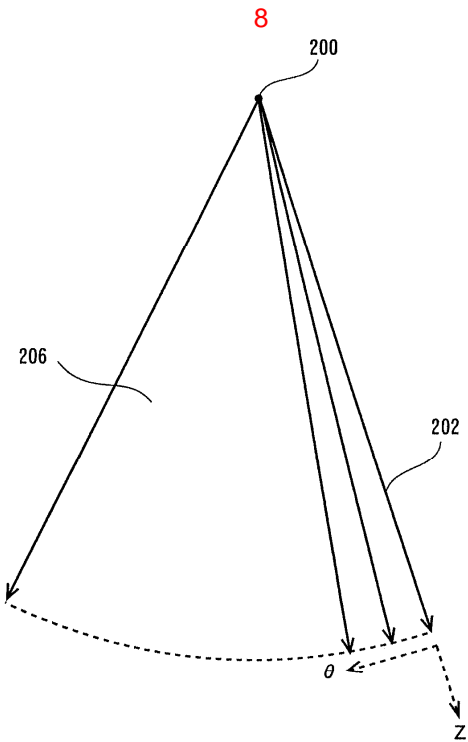
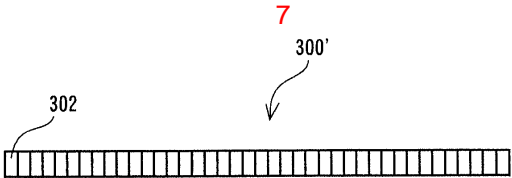


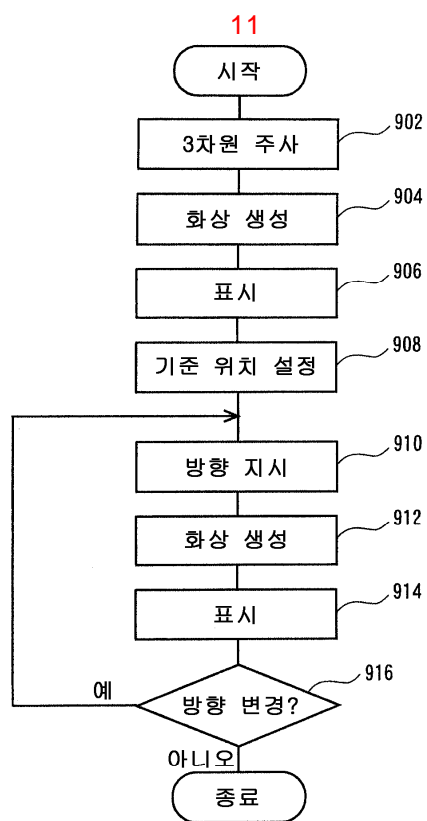
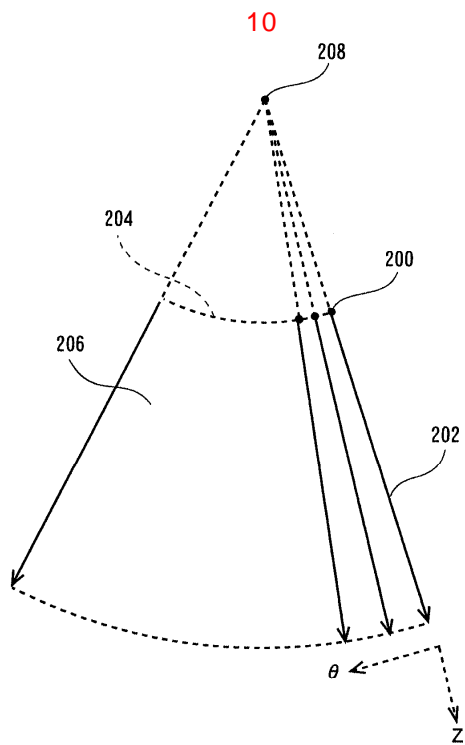
5

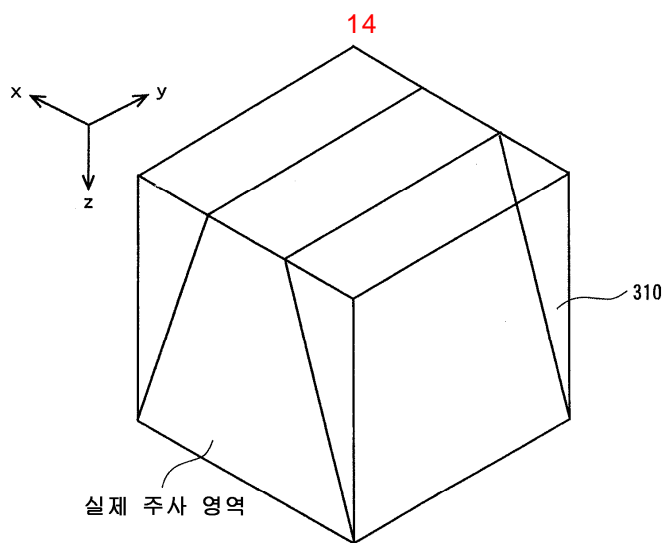
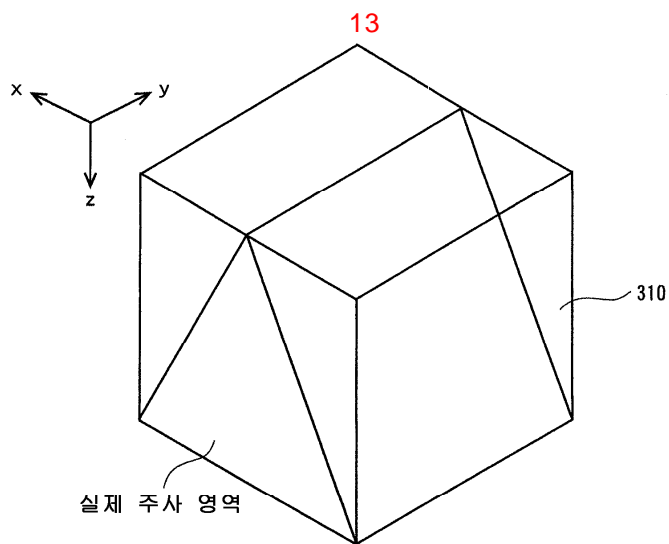
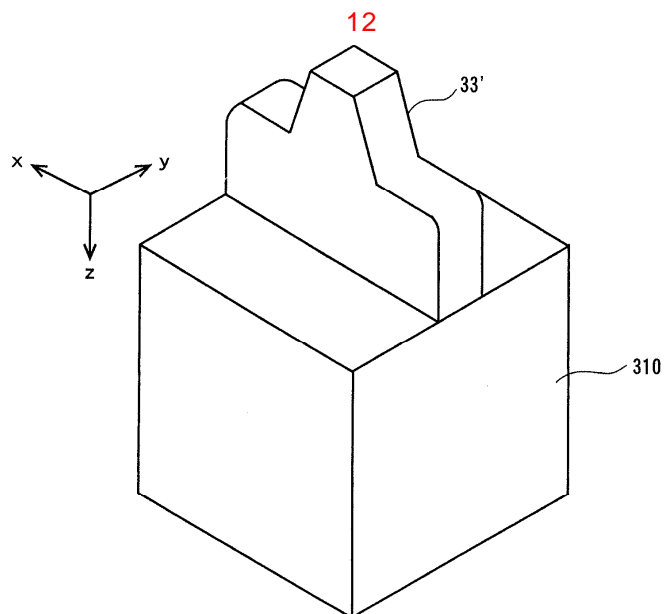


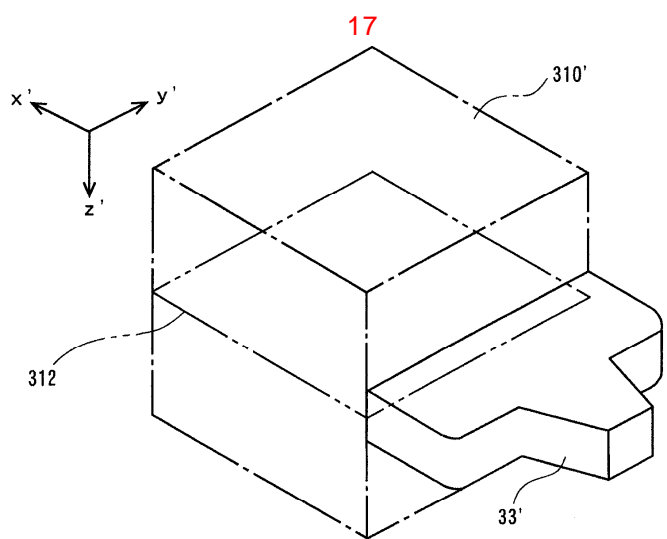
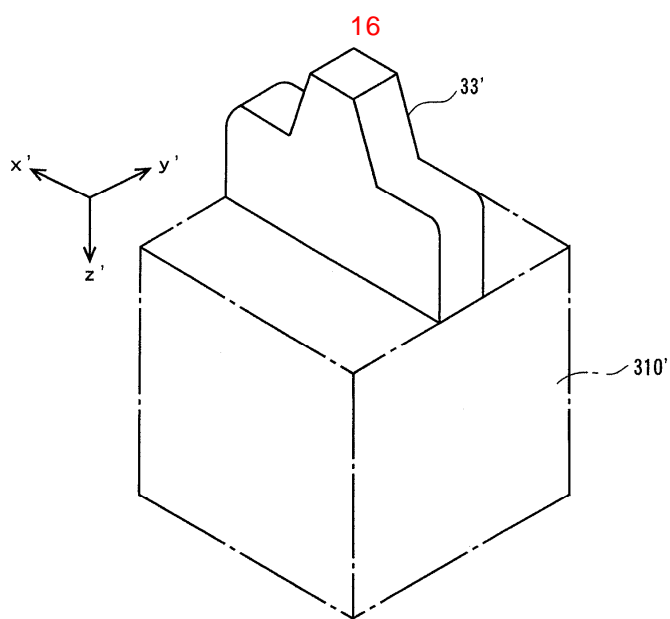
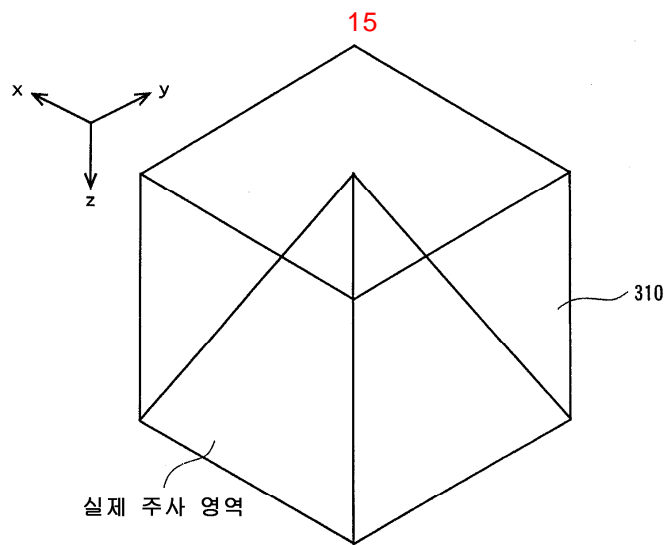
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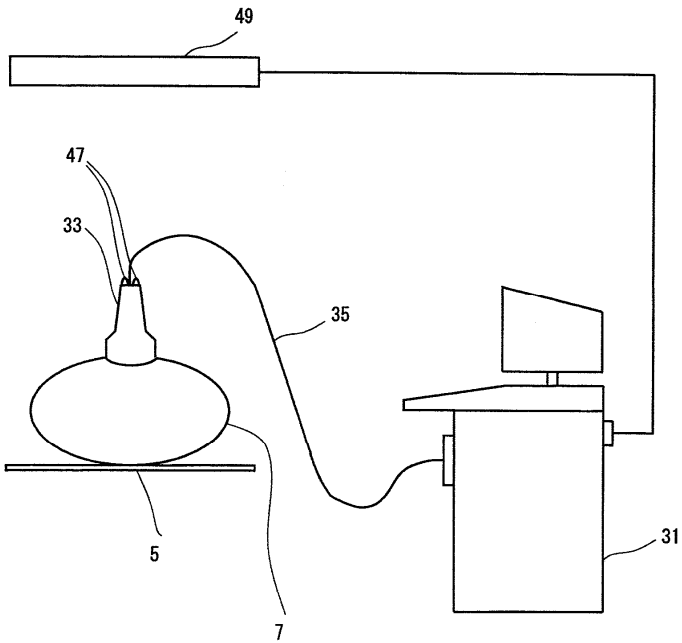




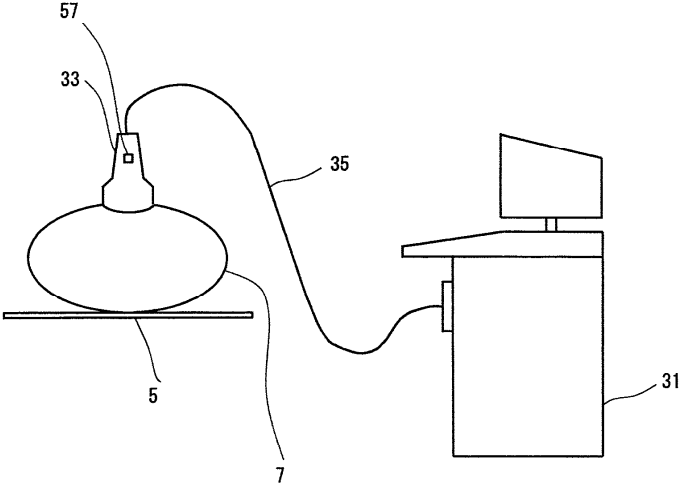


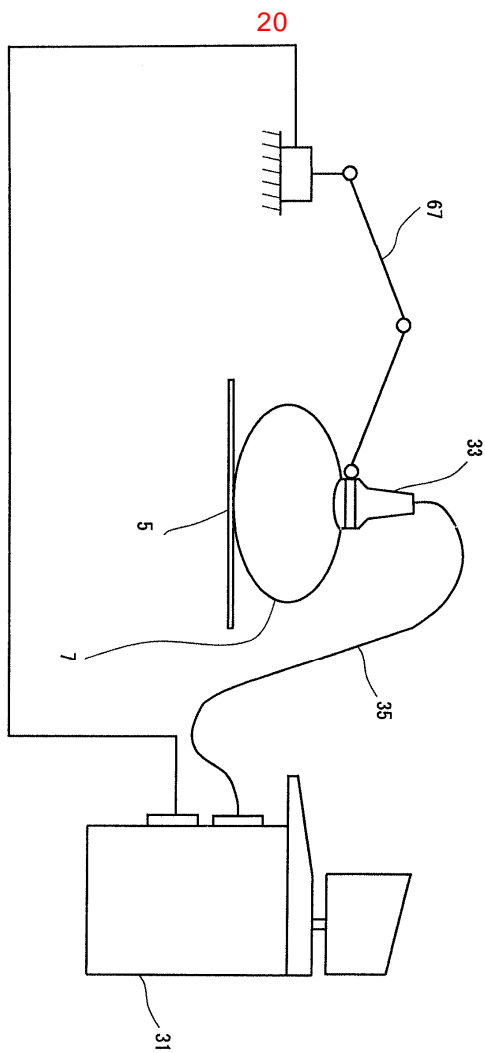


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专利名称(译)	超声波成像装置		
公开(公告)号	KR1020030084774A	公开(公告)日	2003-11-01
申请号	KR1020030026367	申请日	2003-04-25
申请(专利权)人(译)	지이메디컬시스템즈글로벌테크놀로지컴파니엘엘씨		
当前申请(专利权)人(译)	지이메디컬시스템즈글로벌테크놀로지컴파니엘엘씨		
[标]发明人	HASHIMOTO HIROSHI		
发明人	HASHIMOTO,HIROSHI		
IPC分类号	G01N29/06 A61B8/14 G01N29/26 A61B8/00		
CPC分类号	G01N29/0609 A61B8/4218 A61B8/4254 G01N2291/02827 Y10S128/916 A61B8/14 A61B8/483		
代理人(译)	KIM, CHANG SE 张居正, KU SEONG		
优先权	2002125813 2002-04-26 JP		
其他公开文献	KR100718403B1		
外部链接	Espacenet		

摘要(译)

为了清楚地容易地识别由后处理（后处理）生成的图像的成像方向。并且本发明的装置配备有数据获取装置（33-40），用于使用超声波收发器获取基于超声波的拍摄对象的3D图像数据和用于指示的方向平均值（33,37），s模拟基于被动编制的操作装置的空间信息的摄影方向和图像生成装置（44,46），用于基于在模拟摄影方向上获得的图像中的3D图像数据创建合适的图像。

