

(ultrasonic imaging apparatus)
/

B

(tomographic)

(Doppler shift)

(magnitude)
 μm

가

(region of interest)

(cycle)

(revise)

가

가

(length of preceding time)

가

가

1				
2	1	/		
3	1			
4	1			
5	1			
6	1	B		
7	1	(Doppler)		
8	1			
9	1			
10	1			
11	1			
12				
13				
14				

가 1

1		(2)	(2)	(
)	가		PZT((Ti)
		(2)		(4)
		(4)		(42)가
		가		

(2) / (6) . / (6) (2) (2) ,
 (2) (6) (6) (2)

2 / (6) , / (6) (602)
 beamformer) (604) (602) (18) 가 (602) (b)

(604) (beamforming) , 가
 (azimuth) (148) (604)

/ (606) . / (606)
 (apertures) (wave front composition) (606)

/ (606) (610) . / (606)
 (610) (610) (18)

(602)
 (synchronism) , (604) (610) / (6)
 3 (200) Z (20)
 2) 2 (206) ,

가
 4 (204) 2 (200) Z (202)
 (206) X ,

가
 (200) 2 5 (206) (convex array) ,
 (204) 가 (202)

(18)
 가 (2) , / (6) (18)
 / (6) B . / (6) B
 (10) (12) .

B (10) B (10) 5
(logarithmic amplify unit) (102) (104) B (10)
(104) B (104)

, A - (luminous intensity) B

(12)

(12) 7 (120), MTI(Moving Target Identification) (122),
(124), (126), (128) (130) 가

TI (12) (120) M
(122) MTI (12)
(124) MTI (122) (128)
(126) V (130)
PW V (130)

(12) V, T, (4) (source) PW
가

B (10) (12) (14) (14) B B
(10) (12) B B
(10), (12) (14)

(14) 8 (CPU)(140) 가 CPU(140) (142)
(144), (146), (148), (152),
DSC), (156), (158) (152), (158)

(146) CPU(140) (146) C
PU(140)

CPU(140) (146) (144) (load) ,
(146) CPU(140) CPU(140)
, CPU(140) (18) (148)

B (10) (12) B
(152) (152) DSC(154)
(156) (156) (158)
(16)

(158) (preceding time indication image)가 CPU(140)
(16) (156)

가 (14) (16) (16) (14)
(16)
(CRT) 가 (16)
(16)

(18) / (6), B (10), (12), (14) (16)
(18) (18) (section) 가 . B
(18)

(18) (20) (20) (18) (pan
el)

2) 가 (20) . B B (18) (tim
e slice) , B

B / (6) (2)가 (4)
B (10) (102) / (6)
(104) A -

(152) (14) B (10) B (152)

(6) (2)가 (4)

TI (122) MTI (120) M
(12) (126) (124) V
(128) T (130) PW
가

(14) (12)
(152)
(152)

CPU(140) DSC(154) (152) B (156) .

PW T , V T 가 , PW T

CPU(140) B (1

6) B .

B 가 , 2 가 . ,

가 , 가 ,

2 가 . ,

2 가 . ,

(16) , (158)

가 (16) ,

9 B (162) . B (screen)(160) (162) ,

(164)가 .

B (162) (168) (cursors)(172, 174)

가 (168) . (172, 174)

B (162) (indexing) (gray scale)(176) (178)

(160)

가 (4) (402)

10 가 . (302)

(20)

(304) , (206) (18) 2 (206)

(306) , 가 , (308) (18)

(18) (count down)

(310) , 0 , 가 , (312)

(18) (16)
(308) (312)

, 2 (206) (304) 가 , ,
(306)

11 , (screen)(160)
(164) B

B (162)
(162)

B (162) , (168) B (162)
(gray scale)(176) (160)

, B (162) (164)

170) (170) (strip) (170) (

(170) (172 174)
(172) 가 (174)

(172)
(174)가 (174)

(170)가 가 ,

(170) (170)

12 (180)가 (180)
(182 184) , (172)
가 (174) (174)

11

13 가 (190) (192), (194) (190)
(196)

가 1/3 , (192) ,

(196) 가 1/3 2/3 가 , 2/3 (194)

가

14 (22) (18) (22)

5 (call) 1 10 , 5

(4)

(57)

1.

(inside of a subject) (echo) / - (predetermined resting period)가 (interposed) - (intermittently) / (ultrasonic wave transmission/reception device) ,

(received echo)

(imaging device) ,

(display device) ,

(next scanning start time) (indication device)

(preceding time)

2.

1 ,

가

3.

2 ,

가

.

4.

2

,

가

(sector graph)

.

5.

1

,

가

(hue)

.

6.

1

,

가

.

7.

1

,

가

.

8.

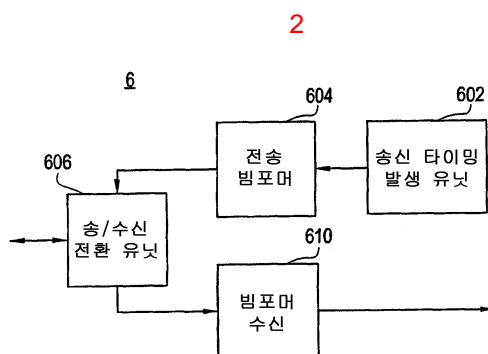
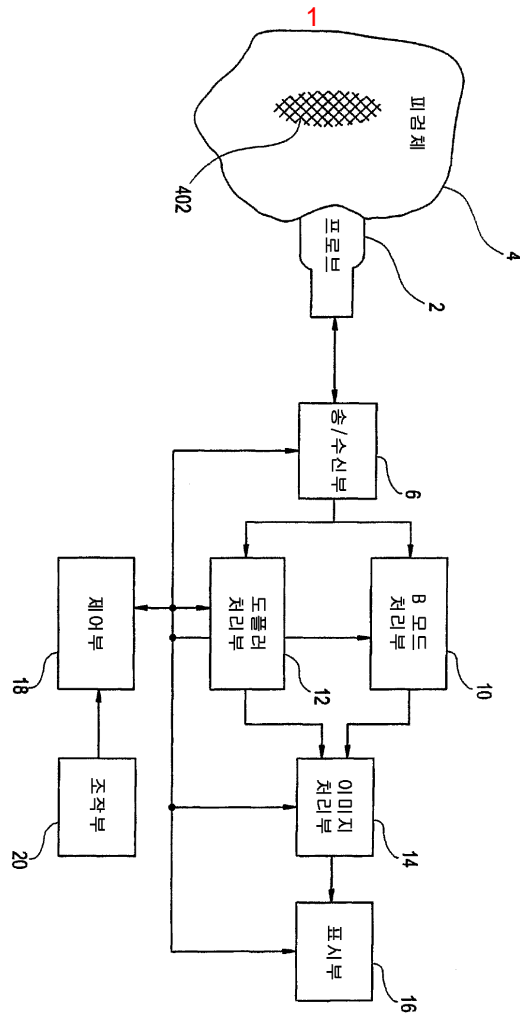
가

-

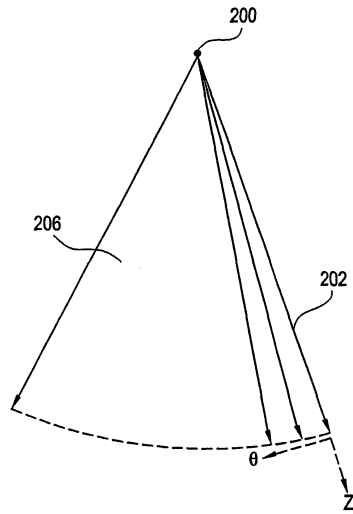
,

/

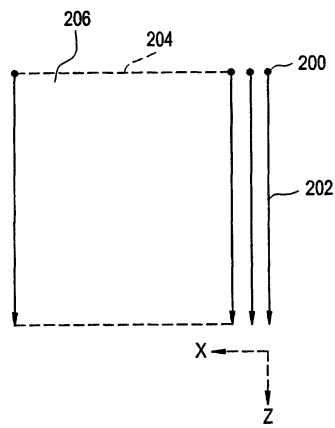
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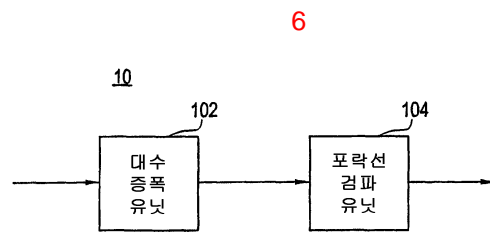
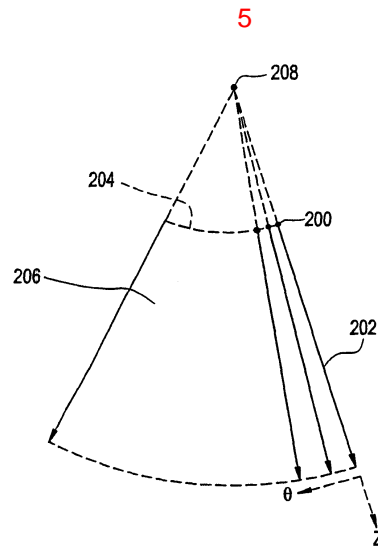


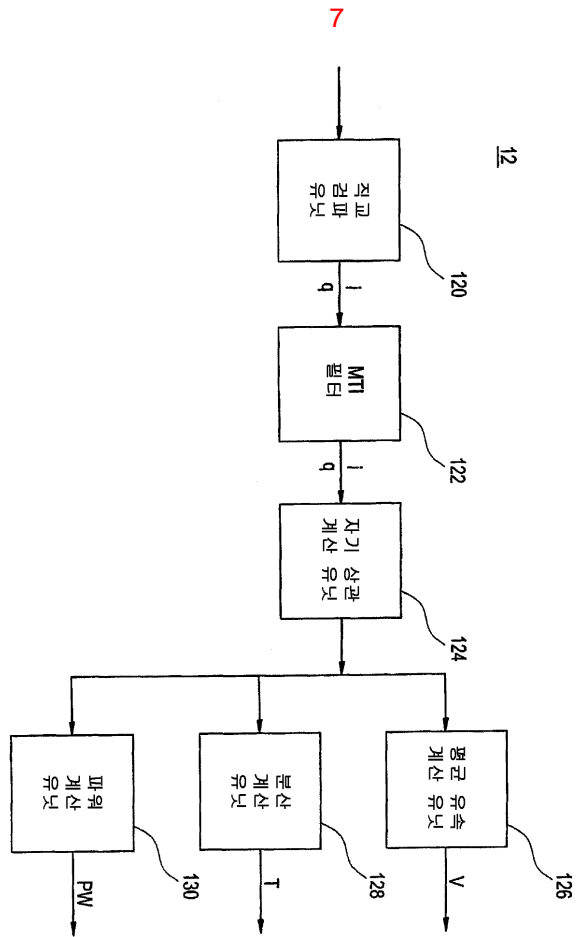
3



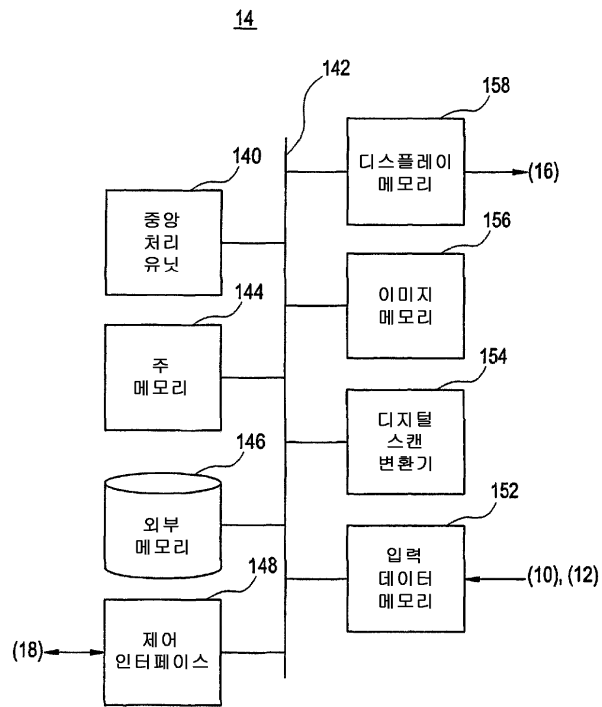
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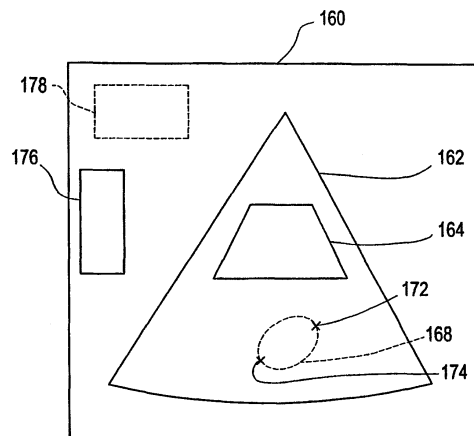




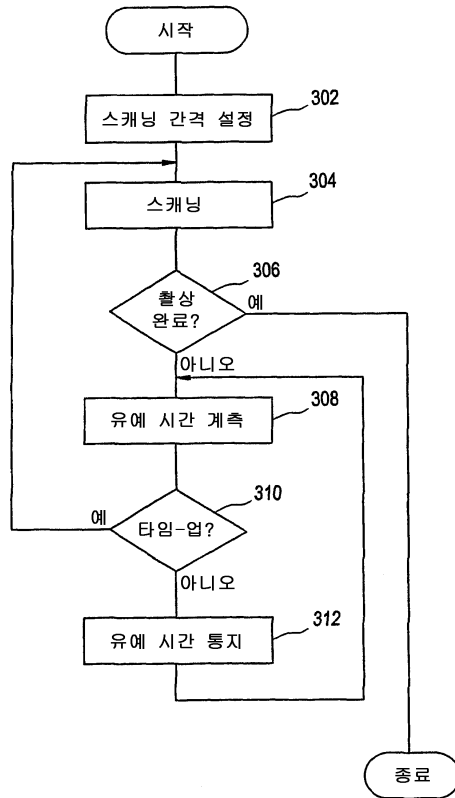
8



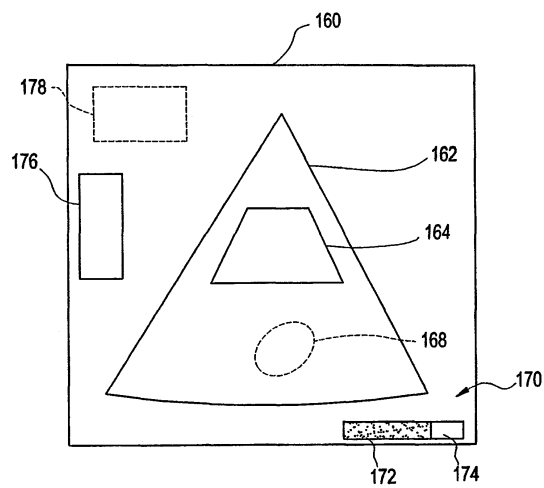
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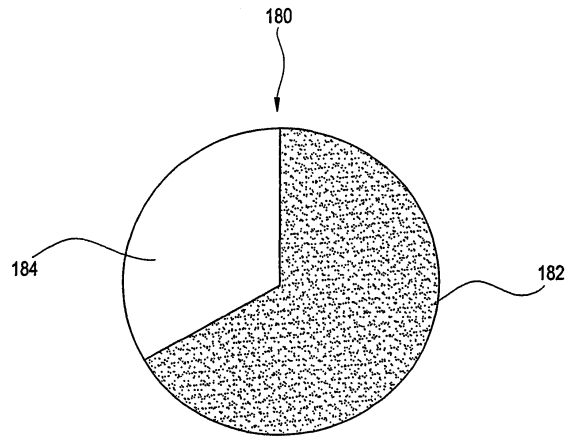
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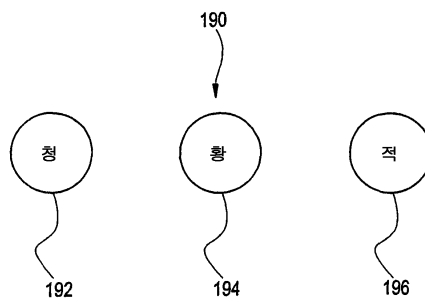
11



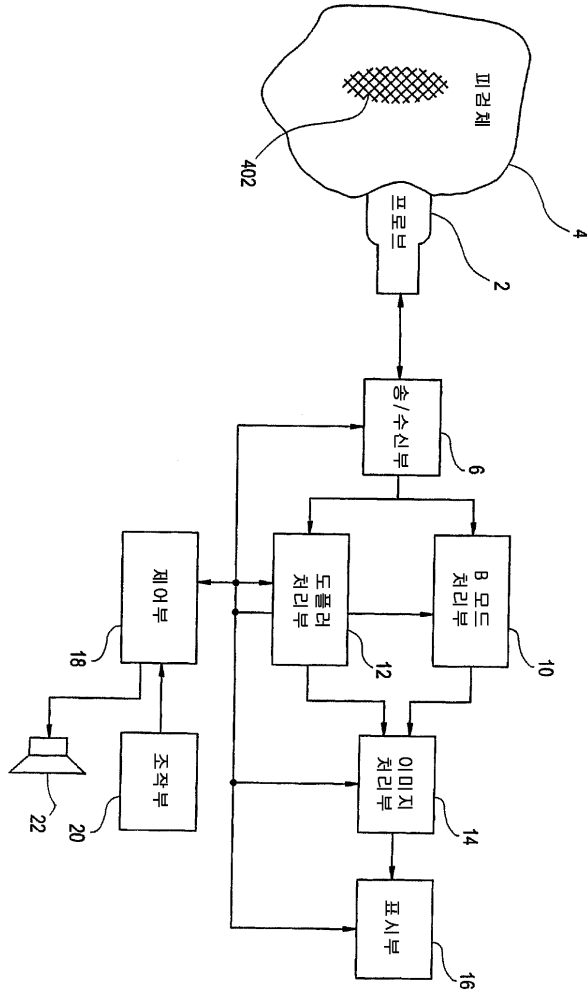
12



13



14



专利名称(译)	超声成像装置和下一扫描开始时间显示方法		
公开(公告)号	KR1020020064333A	公开(公告)日	2002-08-07
申请号	KR1020027007229	申请日	2001-10-02
申请(专利权)人(译)	지이메디컬시스템즈글로벌테크놀로지컴파니엘엘씨		
当前申请(专利权)人(译)	지이메디컬시스템즈글로벌테크놀로지컴파니엘엘씨		
[标]发明人	HASHIMOTO HIROSHI 하시모토히로시 TANAKA KOW 다나카고우 ANZAI TERUO 안자이테루오 KANNO KEN 간노켄		
发明人	하시모토히로시 다나카고우 안자이테루오 간노켄		
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摘要(译)

超声成像设备在条形图等上指示持续到下一个扫描开始时间的先前时间长度，从而减轻了操作者执行间歇扫描的责任。

