

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

(51) . Int. Cl. 7
A61B 8/00

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(43)

2003-0074414
2003 09 19

(21) 10-2003-0015642
(22) 2003 03 13

(11)
(43)

(30) JP-P-2002-00070562 2002 03 14 (JP)

(72) 가 4-34-402

(74)

1

(54)

4

1(a) (原) , 1(b) 1(a)
1(c) 1 (b)

2(a) , 2(c) 2(b) , 2(b) 2(a)

³ ¹ ,

5 ,
 6 5 ,
 7 ,
 8 7 ,
 9 가 N ,
 10 ,
 11(a) 2 , 11(b)
 12 ,
 13 가 ,
 14 가 ,
 15 ,
 16 14 ㄱ ㄴ ,
 17 14 ㄱ 가 ㄴ ,
 18 14 ㄱ ㄴ ,
 19 14 ㄱ ㄴ ,
 20 2 ,
 21(a) , 21(c) 21(b) , 21(b) 21(a) ,
 22(a) 21(c) , 22(b)
 22(a) ,
 23(a) 22(b) 가 , 22(b)
 23(a) ,
 24(a) , 24(c) , 24(b) ㄱ ㄴ 24(a) , 2
 4(d) ,
 25 ,
 26 ,
 27(a) , 27(c) , 27(b) 27(b) 27(a) ,
 28(a) , , 28(b) , ,

< >

10 : 11 :

12 : 13 :

14 : 15 :

16 : 101 :

102 : 103 :

104 : 가 105 :

106 : 107 :

110 : 111 :

112 :

, , , ()
가 가 .

, (無侵襲) 2
가 . , ,

) , , , ()
trol () , () 가 . () , , () , 16 , , STC(Sensitivity Time Con
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1 2

2

1(a) 1(c)

1(a)

1(a)

2002-224116

2

(1(b)

)

(1(c))

가

2(a) 2(c)

2(a) 1(a)
가 , 1
, 2(c)

(2(b)

(2(a)
가

, , 가 가 . .

가 ROM , CD - ROM

(1)

$$\begin{array}{ccccccccc} 3 & , & & & & & & (10) \\ . & (10) & , & & & & & \\ , & & (11), & (12), & & (13), & (14), & (15), & (16) \end{array}$$

(12) , CPU, ROM RAM , (10)
 . , (12) (11) (11)

(13) , , , , , (15)

$$(14) \quad , \quad (12) \quad , \quad (15) \quad .$$

$$(15), \quad (12) \\ (15), \quad , \quad , \quad , \quad , \quad , \quad (15) \\ (16)$$

$$(16) \quad , \quad (15) \quad (\quad , B \quad)$$

4 , 3 (110), (109), (109) , (109), (111), (112), (101), (102), (109) (15) , (15) , . . .
 . . .
 (103), 가 (104), (105), (106), (107)

(110) (12) A/D
(110) (112)

, , (11) 1 2 , B

(111) (101)

(112) ROM RAM , (15)

(101) , RAM (105) (112) 가 (110)

(102) , RAM (101) (112)) (110)
(, が , ,)

(103) (110)

(, /4)

가 N (, 4)

$$5, \quad \text{가} \quad \text{가} \quad . \quad 5, \quad , \quad (200) \\ (16) \quad \quad \quad 5 \quad \quad \quad 8 \quad \quad \quad (310 \quad 380) \quad \quad \quad (201)$$

, (310) (103)

(T212)(, (210) , 가 Y (G211)
(201) (P213), (C214))

, (P213) (C214) (PC) (/2) (- /4) 2 (202
 , 203) , (210) (Q218) (I215) (E217) , (20
 1) (R216) (Q218)
) , (I215), (R216), (Q218), (E217) , (5
 (310) (320 380)
 6 , (201) 5 (), 6
 (210) (201) (200) (6 (I215), (RR219),
 , (V221), (QQ220), (E217) (410)
 7 , (201) 5 , 7 , (210) (210), (51
 (210) (201) (, 50) 8 (501) , 7 , (210) (51
 0) (I215), (J502), (F503), (E217) (510) (7
 , (510) .
 8 , (210) (501) 7 , 8 , (601) , (601) (5
 (210) (201) (, 12) 8 (601) , (8
 01) , (H602), (J502), (F503), (D603) (610) (8
 , (610) .
 9 , (210) (G211) 9
 (210) 가 X Y 4 , , ,
 (710) 16 , , , , , ,
 5 9 , , , , , ,
 /3 (, 5 (G211) (T212) , , ,
 가 (104) (103) , , ,
 가
 (1)

가

(2)

= 4 A/L ** 2 (Ø)(L, A , Ø
 가 , , , , , , , , , ,
) , , , , , , , , ,
) , , , , , , , , ,
 (210) 가 (G211) , , , , , ,
) , , , , , , , , ,
 9 (G211) , , , , , , , ,
 4

(3)

, x y (2) , 가 (

(4) 2

2 가 , 2 . (,)

(5)

, 「0」 「1」 , , , 1.0()
「0」 「1」 , 福井和弘 「」 ()
D-II vol. J80-D-II, no. 6, pp. 1406-1414, June 1997) 가

(6)

(105) (103)

(103)

(104) 가

(107)

, 2

11

11(a) 2

128

11(a)

11(b)

「128」

128

0 255

11(b)

b)
11(b) (901)
, 11(b) (902)

「60」 . , 11(b) ,

$$, \quad \begin{pmatrix} & 2 \\ & \downarrow \\ \downarrow & \begin{pmatrix} & \end{pmatrix} \end{pmatrix} \quad \text{가}$$

, (20) , 1 (12) (10) 1 (22) (10) (11)
 , (21) , 1 (14) (14), CCD .
 (22) , (20) , CPU, ROM RAM
 (21) , RAM RAM , (14)
 (15) . , (14), (15), (16) , 1
 (10) .
 21(a) 21(c) , (20) , 21(a) , ,
 . 21(a) (, 1) ,
 21(b) 21(a) , (10)
 21(c) , 21(b) , , 1
 22(a) 22(b) , , , 22(a) (23, 24) (23, 24) (23, 24) 1
 . 22(b) (23, 24) (23, 24) (23, 24)
) ,
 23(a) 23(b) , , 가 23(a) 23(b) 23(a) (23, 24)
 , , , , , ,
 23(b)
 24 , (20) 가 (20) 24(b) 24(a)
 , , , , , ,
 24(c) (, 0.7) , , , , ,
 (20) , , , , ,
 (0.9) , , , , ,
 24(d) , , , , ,
 24 , (20) 가 (20) 25
 , , , , , ,
) , (, ,) 가 , ,
 25 , (20) , , , ,
 (20) , , , ,
 26 , (20) , , , , (15)
 (21) (22) , , , ,
 , , , , ,
 (S2301).
 , (22) , , , ,
 (103) , , , ,
 (S1306), (S1303).
 (22) , , , ,
 (S1305).
 , (22) , , , ,
 (S2302 : Yes),
 (S2303).
 , (15) , (22) , , , ,
 (S2304).
 , 1 2 , , , 5 9, 21

27(a)

, 8

27(a)

27(b)

()

28

28(a) ,
 , (W2, H2)
 $H2 = 5H1/3$, $W3 = W1/3$, $H3 = H1/3$

(W1, H1)
(W3, H3)

$$, W_2 = 5W_1/3,$$

28(b) ,
(W5, H5)

$$W_5 = W_4/3, H_5 = H_3/3$$

/3, H6 = H4/6

(14)

c, W1 W6 H1 H6

1

가

(57)

1.

2.

1

3.

1

, CCD

4.

1

5.

1 ,

가 가

6.

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가

가

8

7

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X Y

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11.

8 ,

12.

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13.

12

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가

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18.

19.

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23.

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가

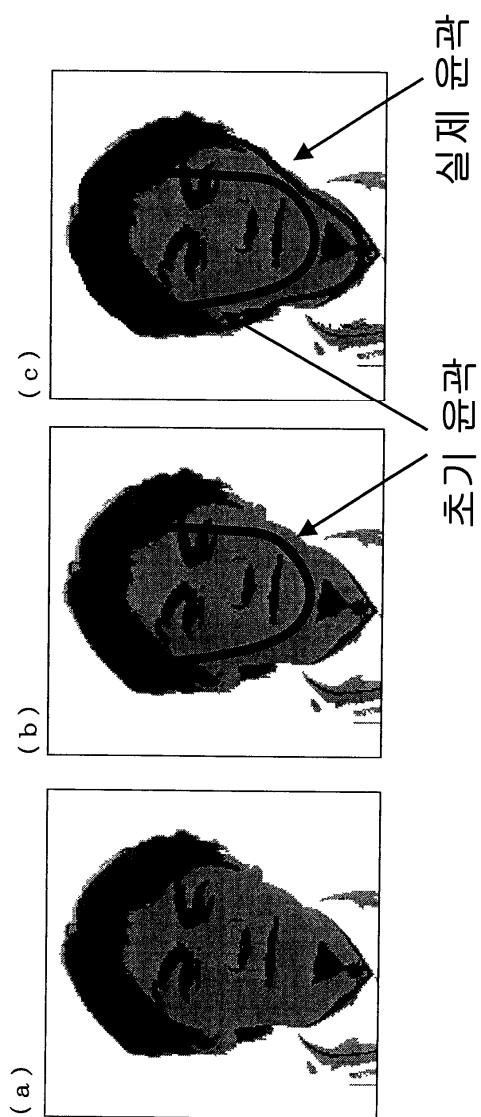
24.

,
가

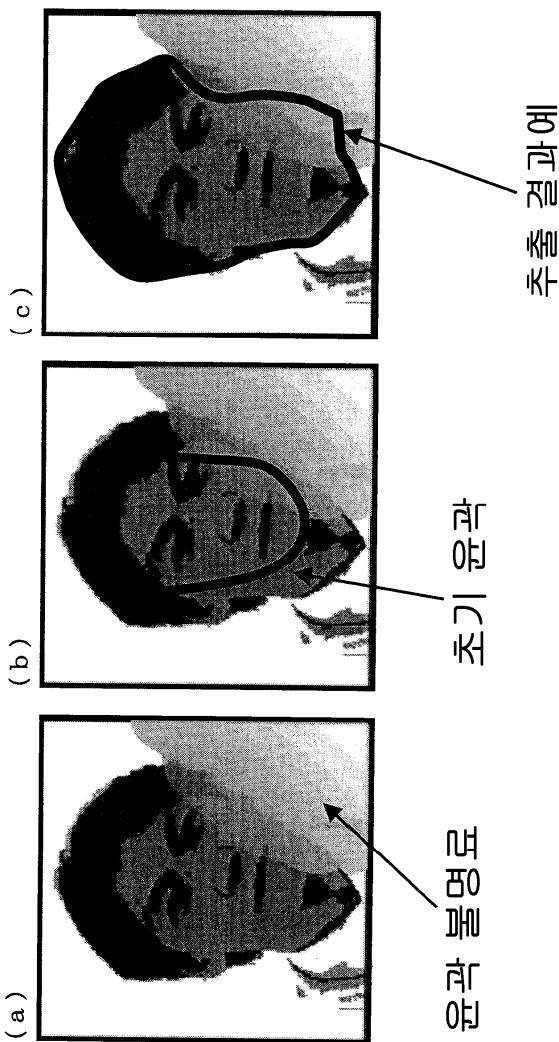
,
가

,
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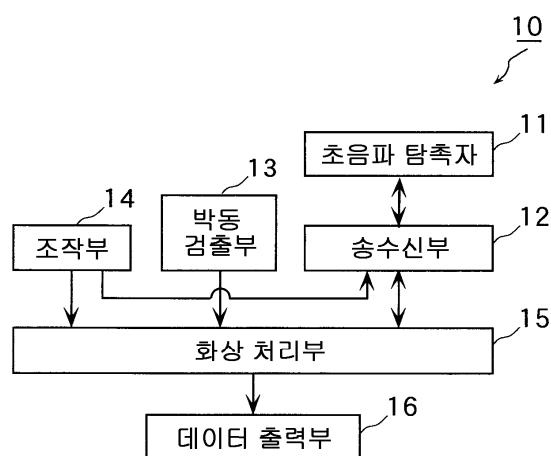
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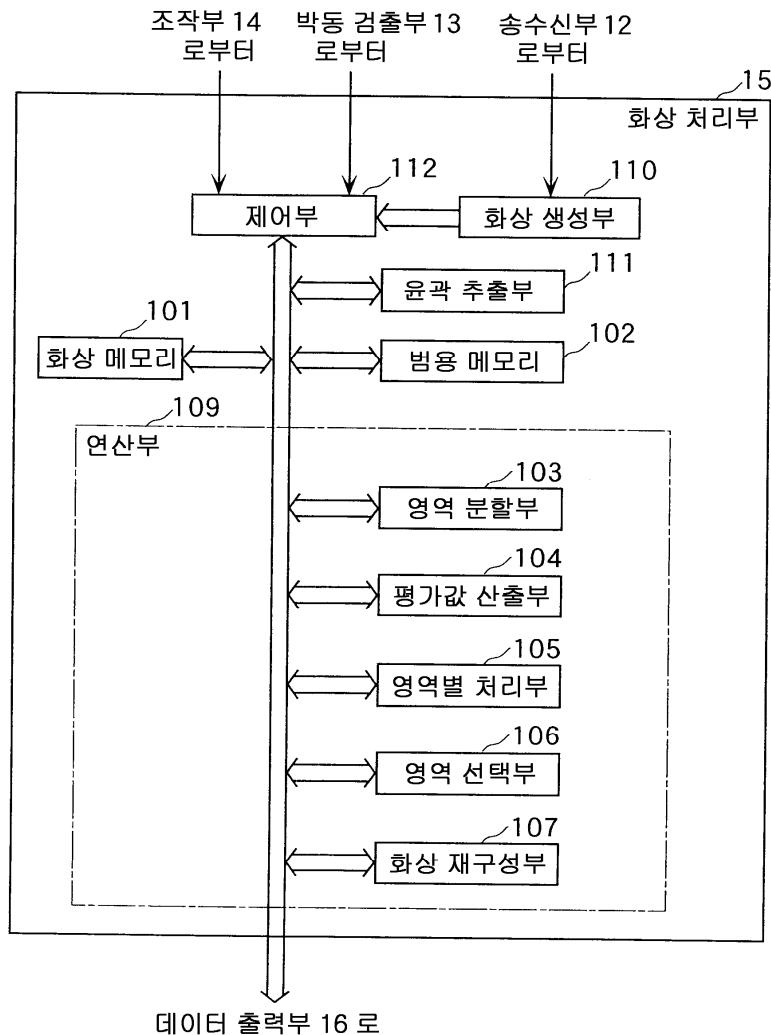
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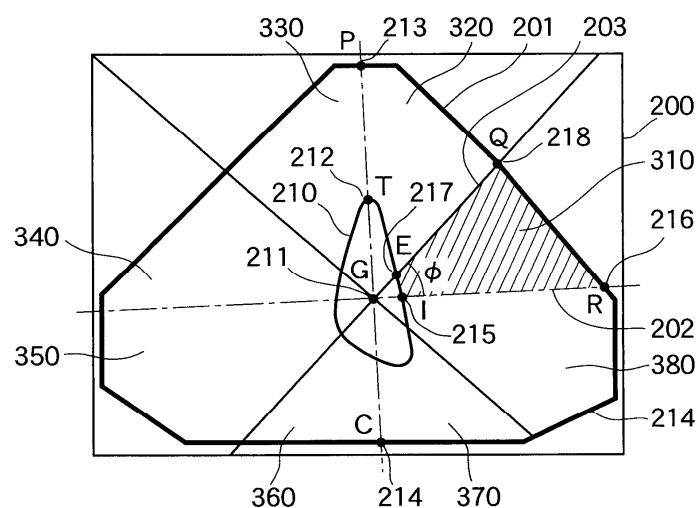
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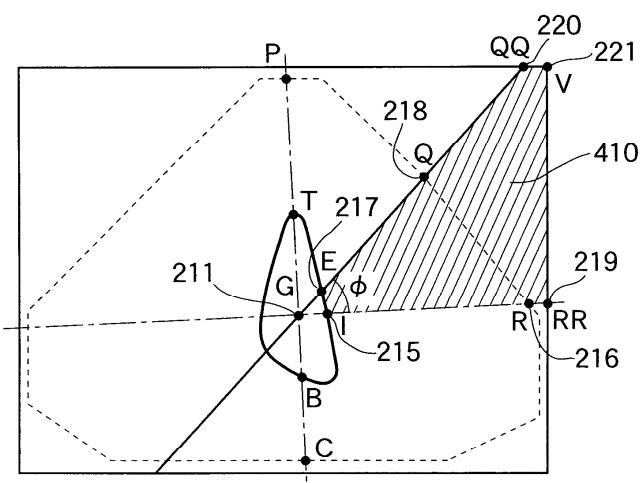
4



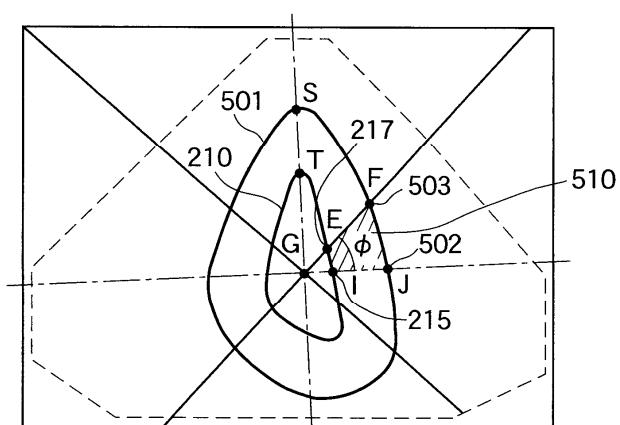
5



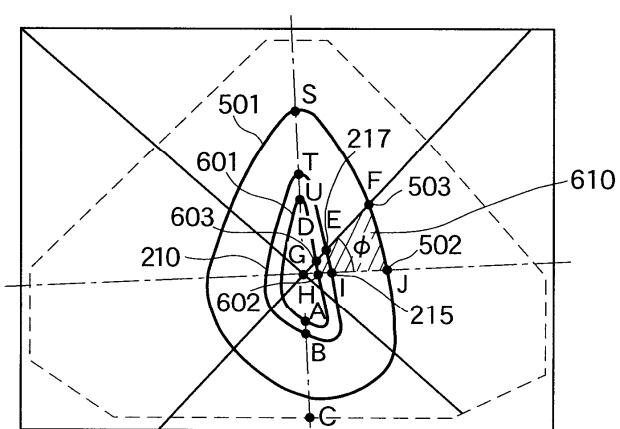
6



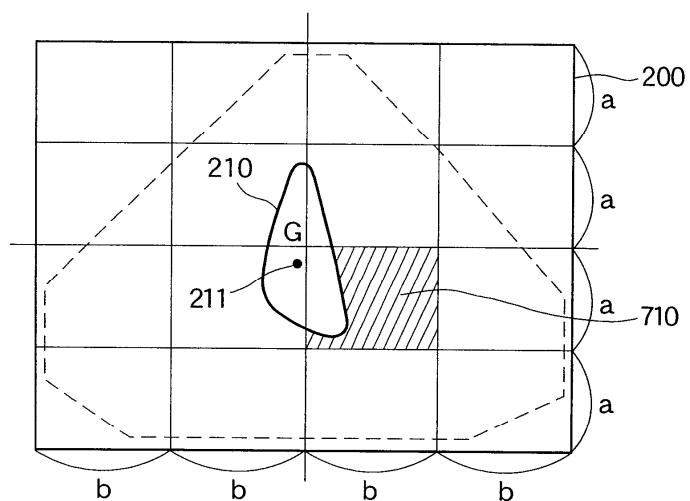
7



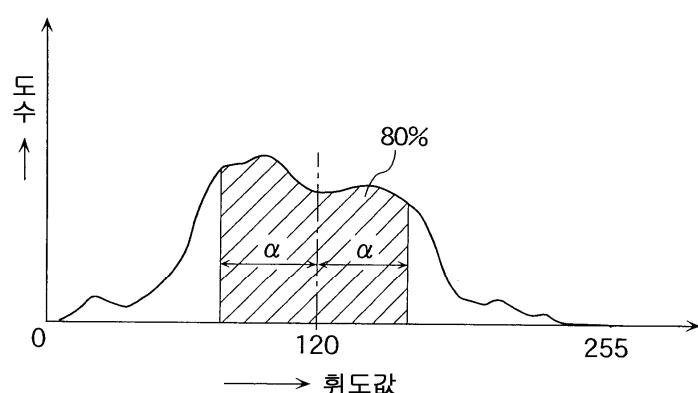
8



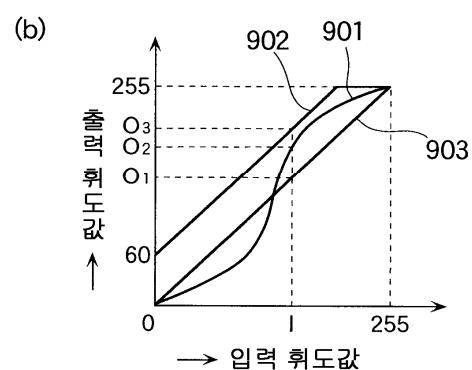
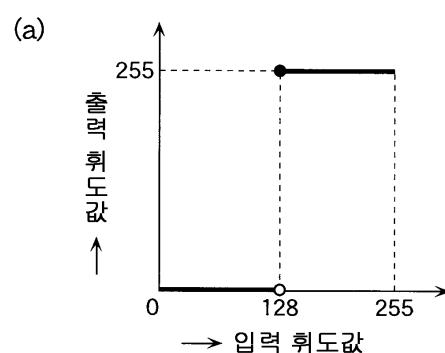
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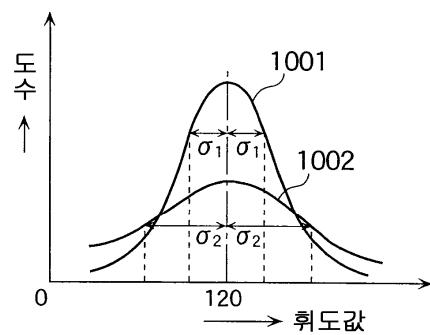
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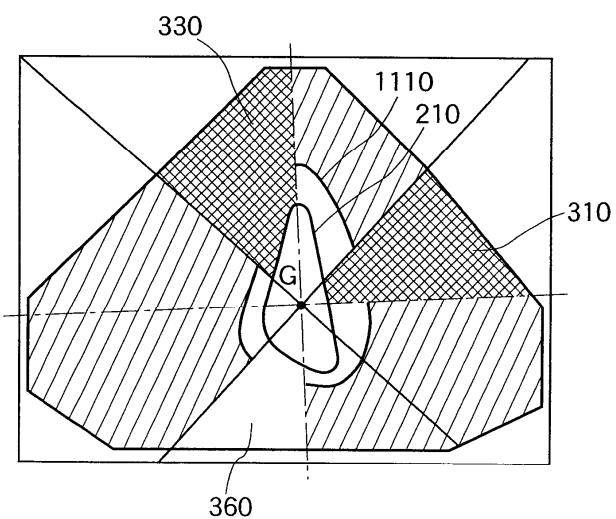
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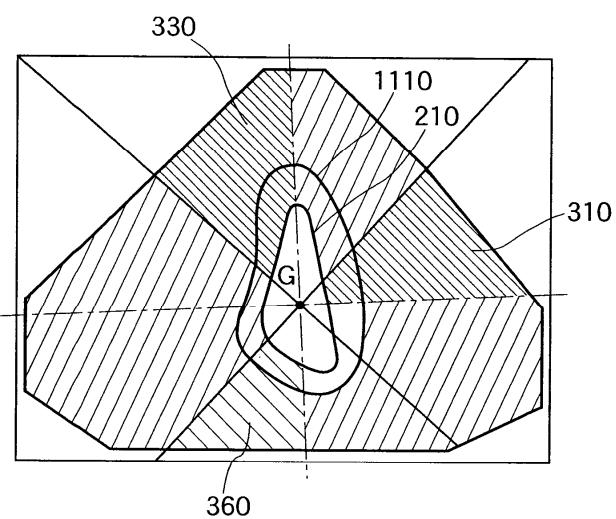
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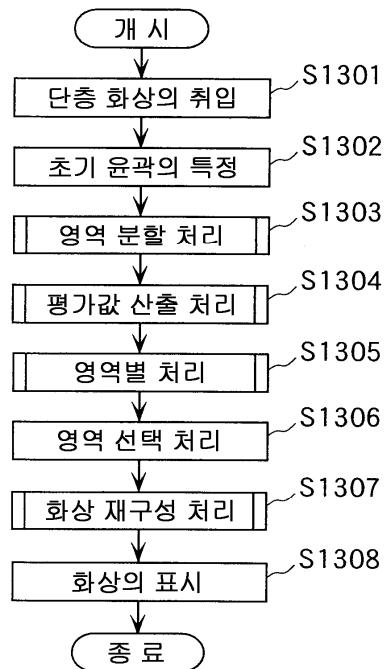
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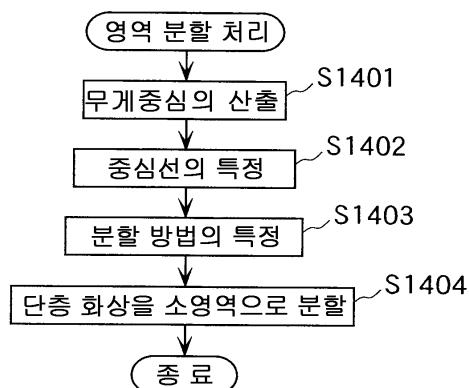
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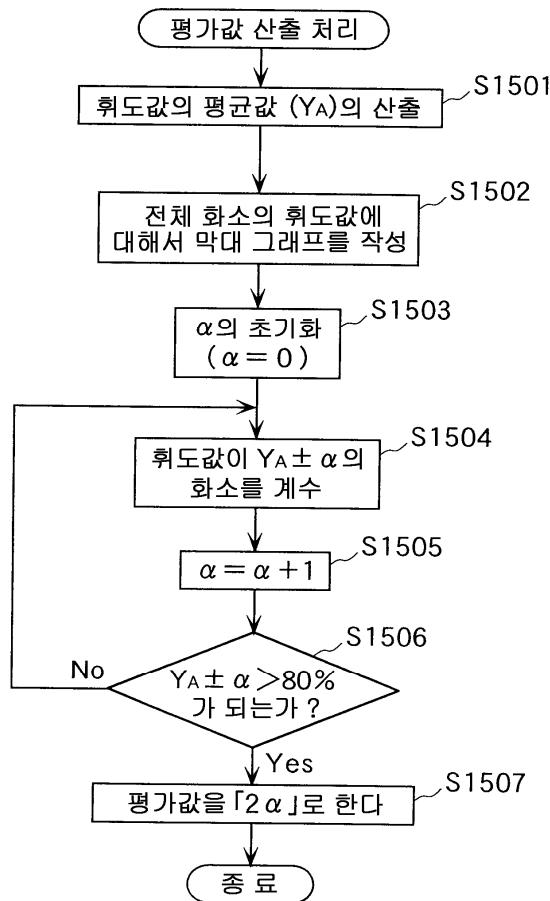
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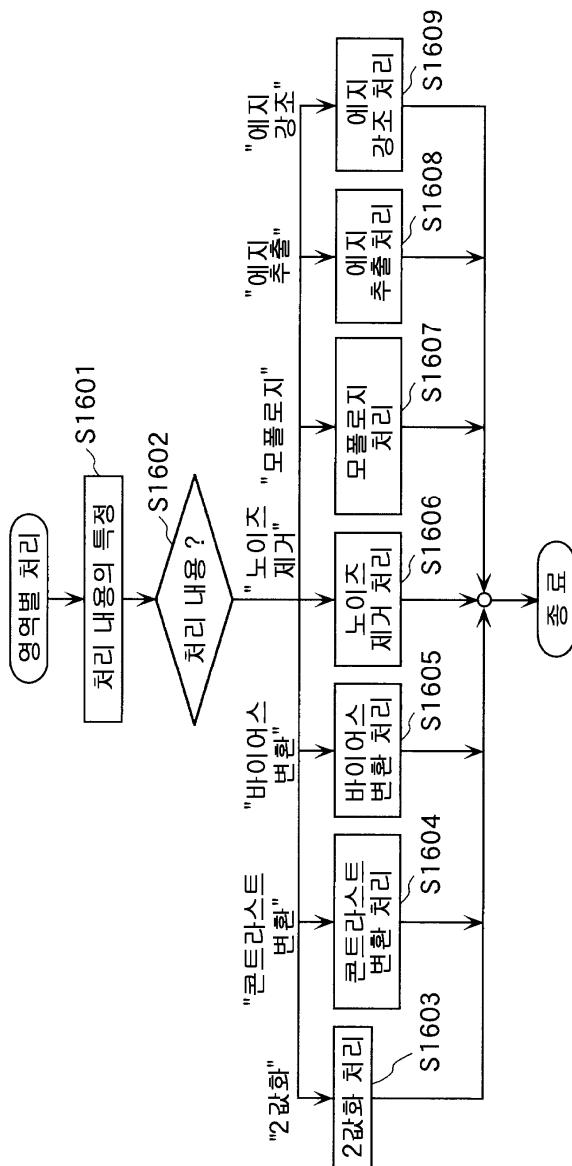
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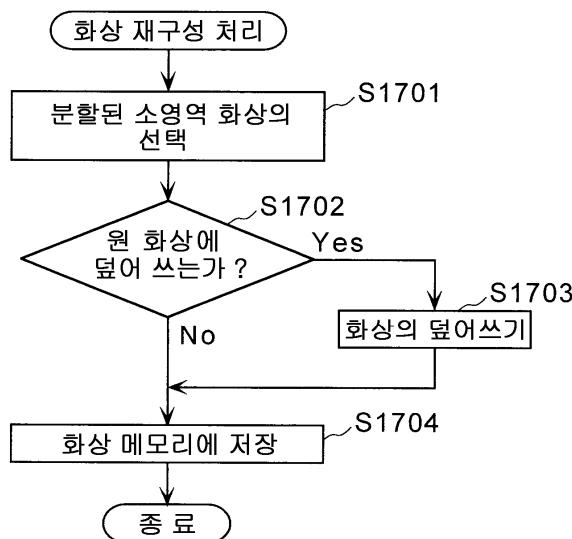
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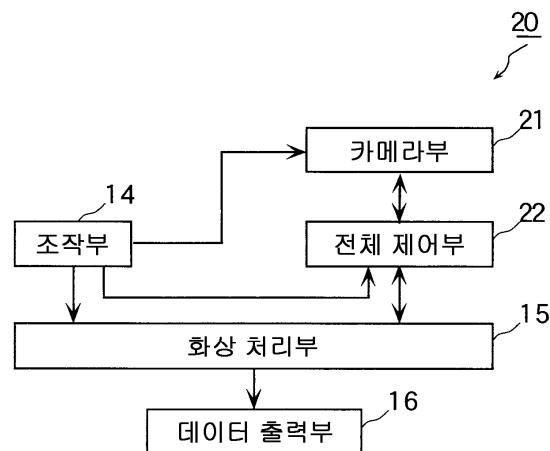
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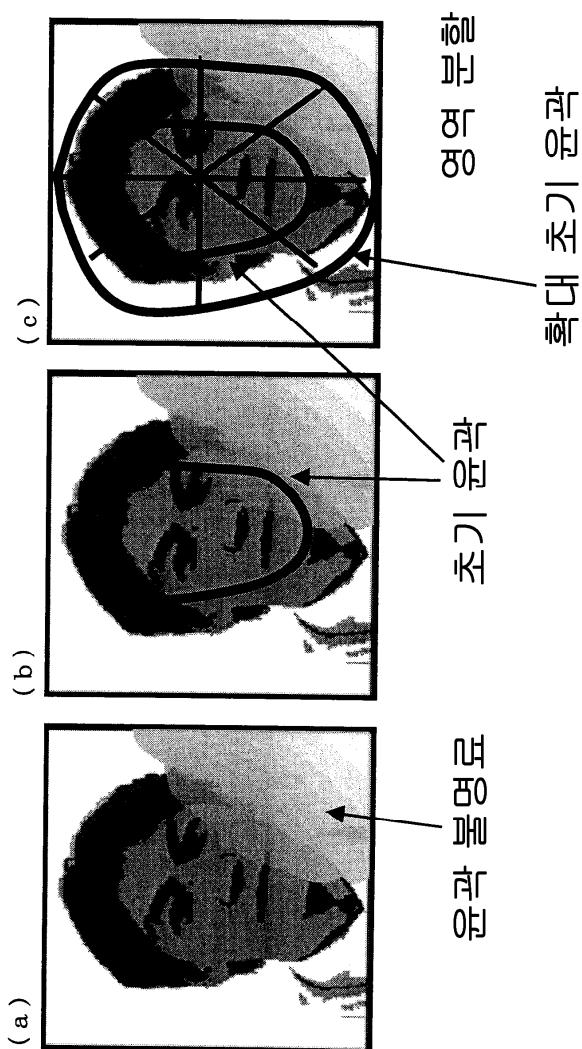
19



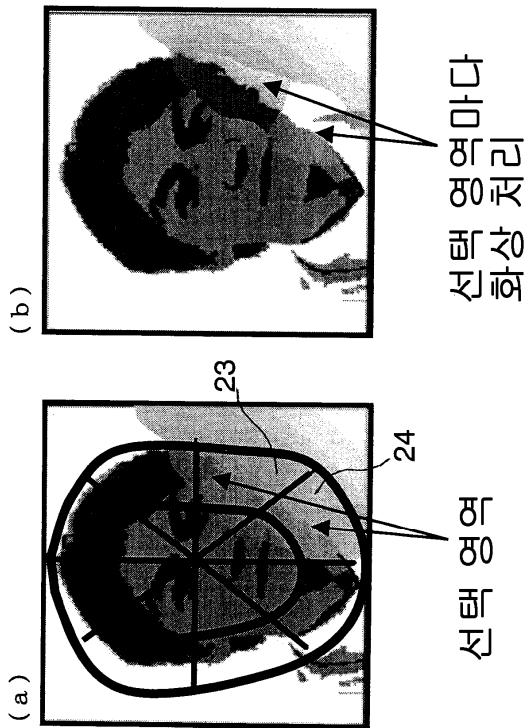
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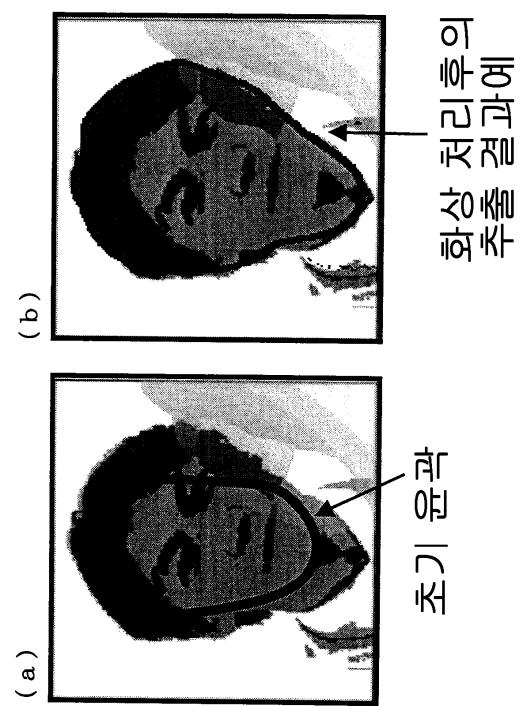
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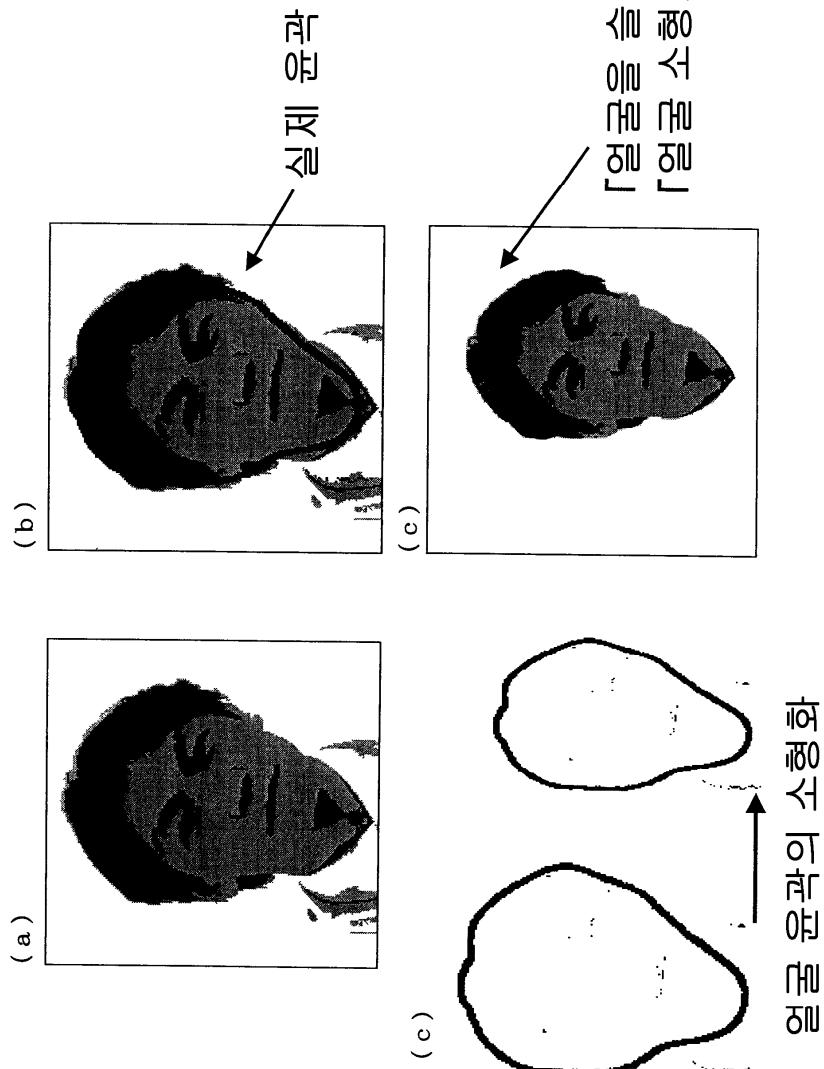


22



23



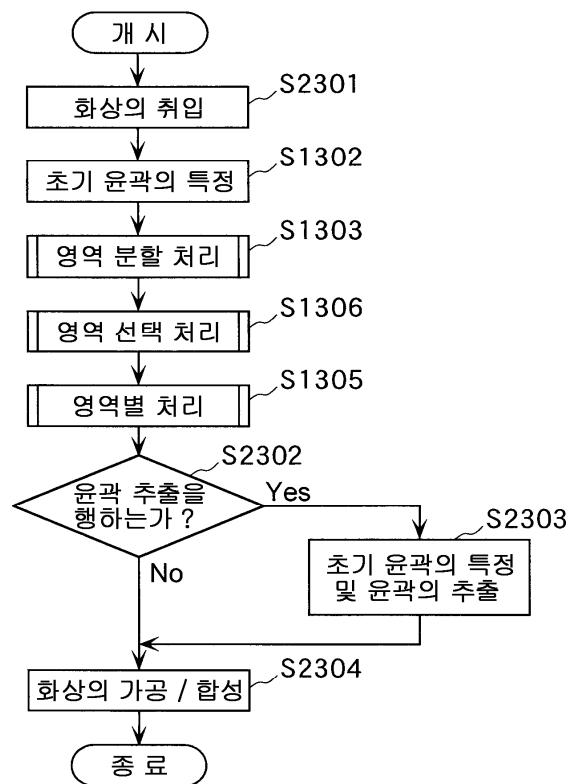


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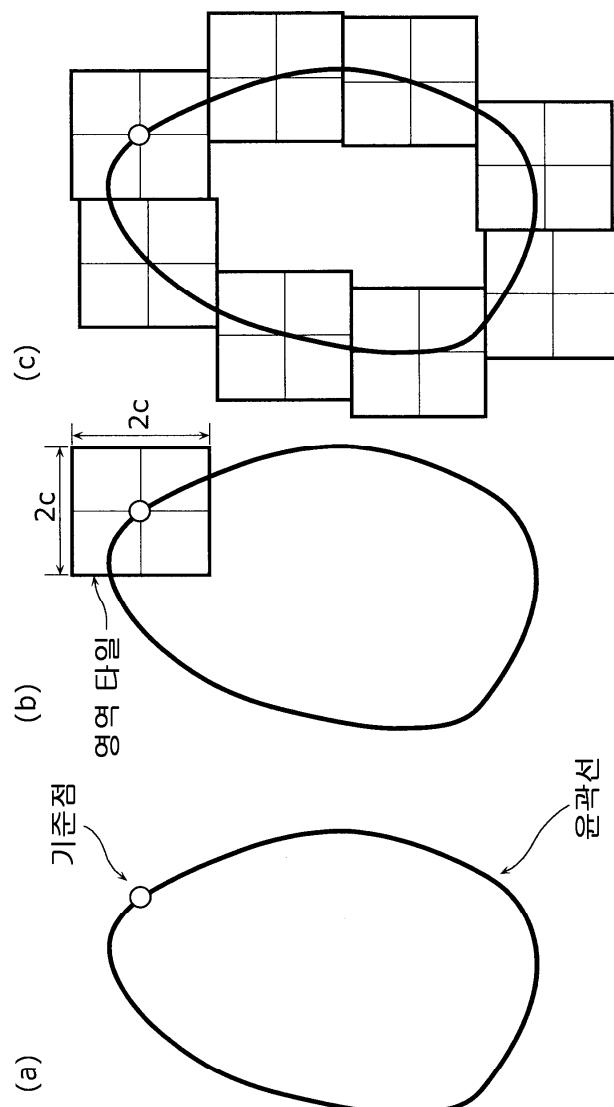
크로마키 합성



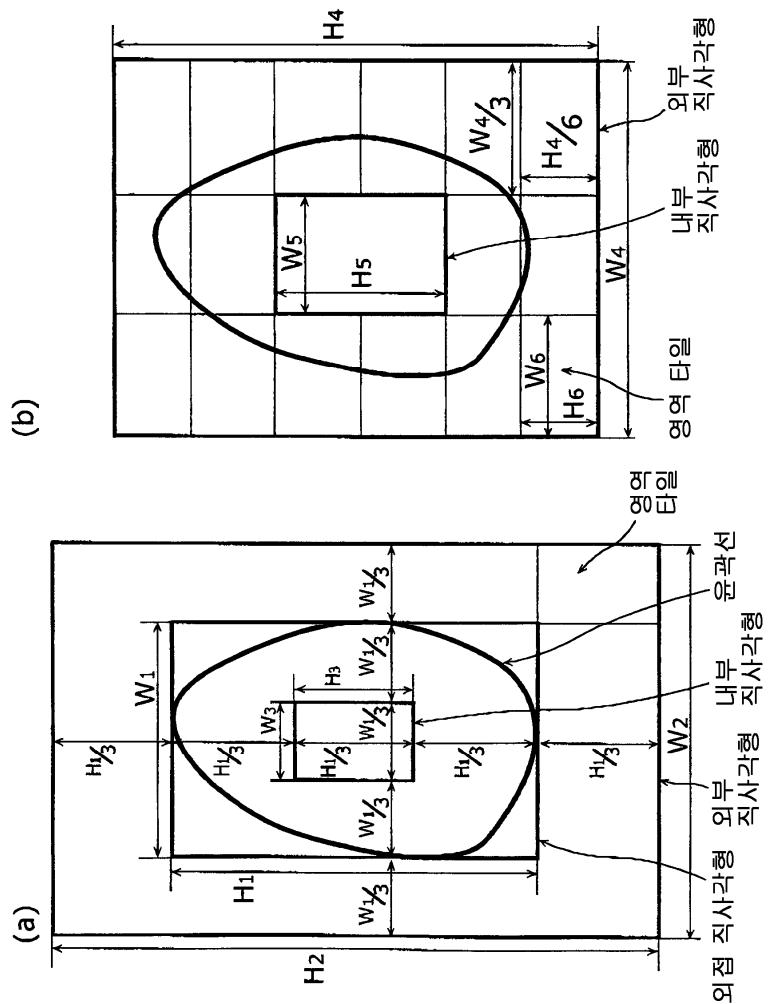
26



27



28



专利名称(译)	图像处理设备和超声诊断设备		
公开(公告)号	KR1020030074414A	公开(公告)日	2003-09-19
申请号	KR1020030015642	申请日	2003-03-13
申请(专利权)人(译)	松下电器产业株式会社		
当前申请(专利权)人(译)	松下电器产业株式会社		
[标]发明人	YAMAUCHI MASAKI		
发明人	YAMAUCHI,MASAKI		
IPC分类号	G01N29/00 G06K9/00 A61B5/107 G06T7/00 G06K9/48 A61B8/08 G06T5/00 A61B8/00		
CPC分类号	A61B8/461 G06T5/001 A61B8/08 A61B5/1075 G06T2207/30201 G06T5/008 A61B8/467 G06T2207 /30004 G06T2207/20012 G06T7/0083 G06T2207/20104 G06T2207/10132 G06T2207/20021 G06T2207 /20192 G06T5/40 G06K9/00228 G06K9/6207 G06T7/12		
代理人(译)	汉阳专利事务所		
优先权	2002070562 2002-03-14 JP		
外部链接	Espacenet		

摘要(译)

区域划分部分103基于初始轮廓将超声波断层图像划分为小区域。评估值计算器104计算例如关于每个小区域中的亮度值的信息(亮度分布等),关于位置的信息(距参考点的距离等)等等。区域选择单元106根据计算的评估值选择小区域。区域特定处理单元105根据所选择的小区域执行图像处理。图像重建单元107使用经过图像处理的小区域来重建断层图像。4

