

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

(51) . Int. Cl. 7 (11) 2001 - 0060252
A61B 8/13 (43) 2001 07 06

(21) 10 - 2000 - 0065210
(22) 2000 11 03

(30) 09/434,817 1999 11 05 (US)

(71)

(72)	53150	68	15091
	53186	1707	
	53186	226	2572

(74)

(54)

가 , (8)

2 , (bin) 가

5 2

B , , , , (beam
. (firing) , , , ,
former) , , , , (raw)

B , (envelope) , ,
) . , ,
가

(gray scale) . (, " ")

가 ATO
(ATO : auto tissue optimization)
가
, AT
O
,
가
(ROI)
,
" "
(,
)
/ 256
)
가
(8)

, ATO , ROI가 ATO 가 . , (sonogra pher)

가
(re - optimization)

1 , (2), (4), B
(6), (8) (10) . (2) (4)
. RF (4)
. (I/Q RF) B (6) , B (6)
(10)

(18) R - X - Y X - Y
 (10) RAM (20)
 (3) X - Y (22) (3)
 (24) ROI(1 (cine) (3), 8
 (26).
 (28).
 (0, 1) p, 가
 (PIH) (5, 90) 가
 (30). (22) 가
 (4, (32))
 (32), (24) ROI
 (36). (28) (34).
 (38)
 (40). (30) (5, 90) (32)
 가, 가 (42) 가
 (42) N N (N 2) 가
 (2) (2)

90 255

가

5 () . 5 , 67%† . ATO , 171(20)

, ATO

ATO가

(0)

(255)

가

M (M)

)

(8)

4

(),

(0 255)

가

가

가

가

(x_{new})

(y_{new})

$X_{\text{new}} < A$, $y_{\text{new}} = "0"$

$X_{\text{new}} > A$, $y_{\text{new}} = "255$

A X_{new} B , $y_{\text{new}} = "y_{\text{old}} (I)$

, I 1

1

$$(1 + \frac{256 - (B - A)}{B - A})(x_{\text{new}} - A) = I$$

, 256 , (B - A) (y new)
(I)
(A, B)

()

(0
가

1)

0.3%

가

5%

)

가

(

RA

M

가

가

가

가 /

가

가

, 가 " $(N+1)$ " (N+1) , 가 (N+1) 1

(57)

1.

(a) N

가

(b) (N+1)

N

가

(re-optimize)

(8)

2.

1

,

3.

2

,

4.

1

,

5.

1

,

6.

1

,

7.

1

,

8.

7 ,

9.

7 ,

10.

7 ,

(skewness)

11.

7 ,

(kurtosis)

12.

7 ,

p

13.

(a) (N+1)

(b) N (N+1)
가 1 ,

(c) 1 , N , 가 2

(d) 1 2 ,

14.

13

,

15.

14

,

16.

13

,

17.

13

,

18.

13

,

19.

13

,

20.

 $(N+1)$ (34) ,

N

가

 $(N+1)$

1

 (38) ,

N

 (40) ,

1

2

가

2

 (42)

21.

20

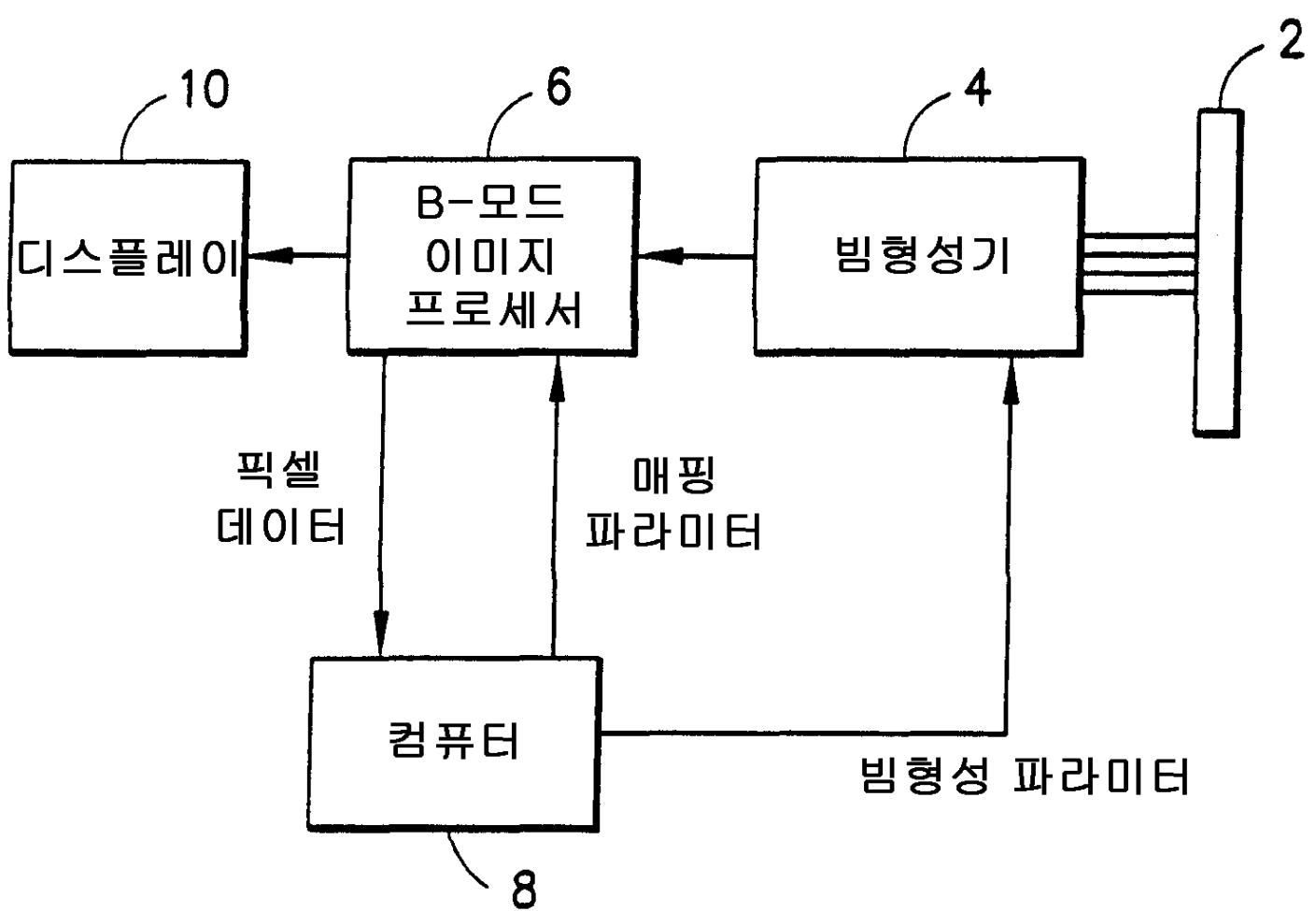
22.

21

23.

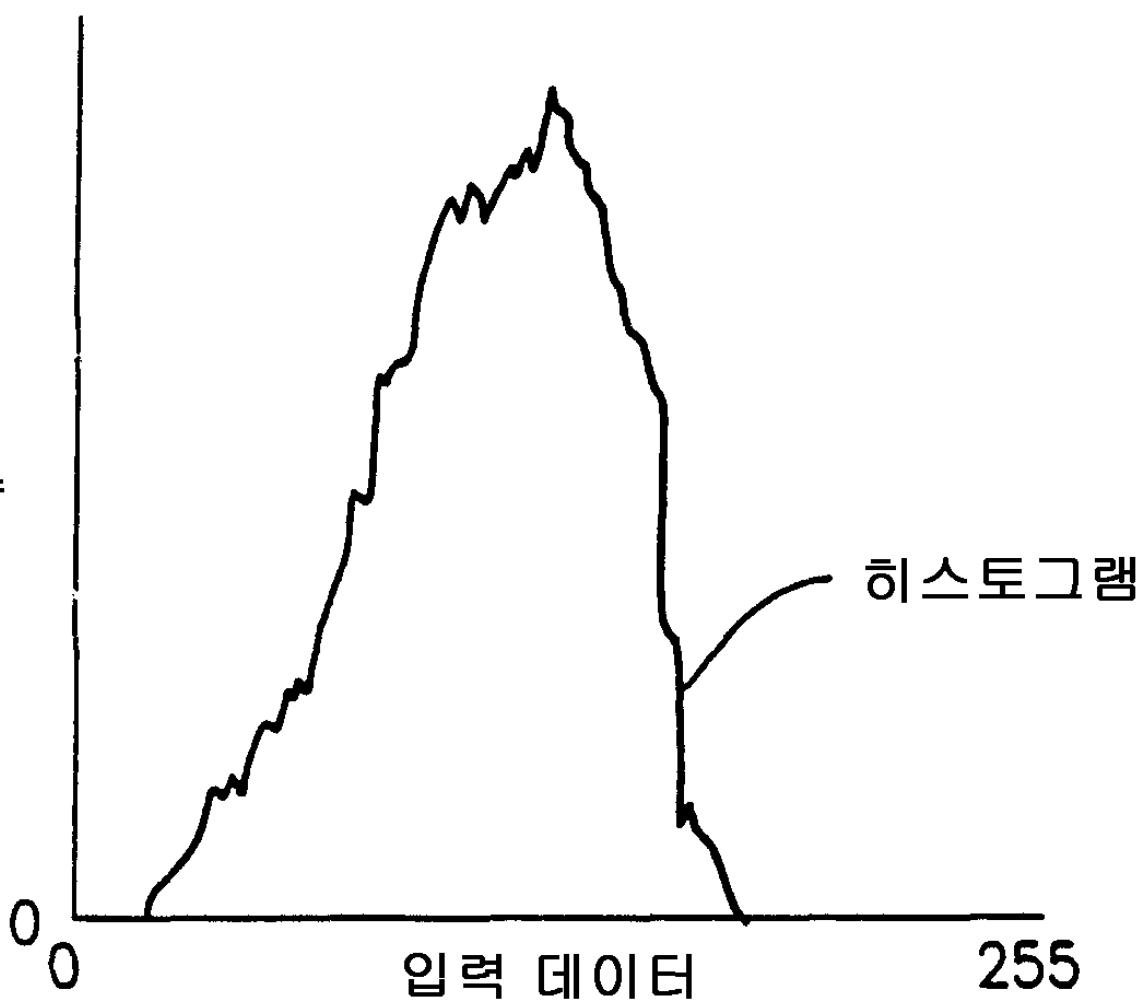
20

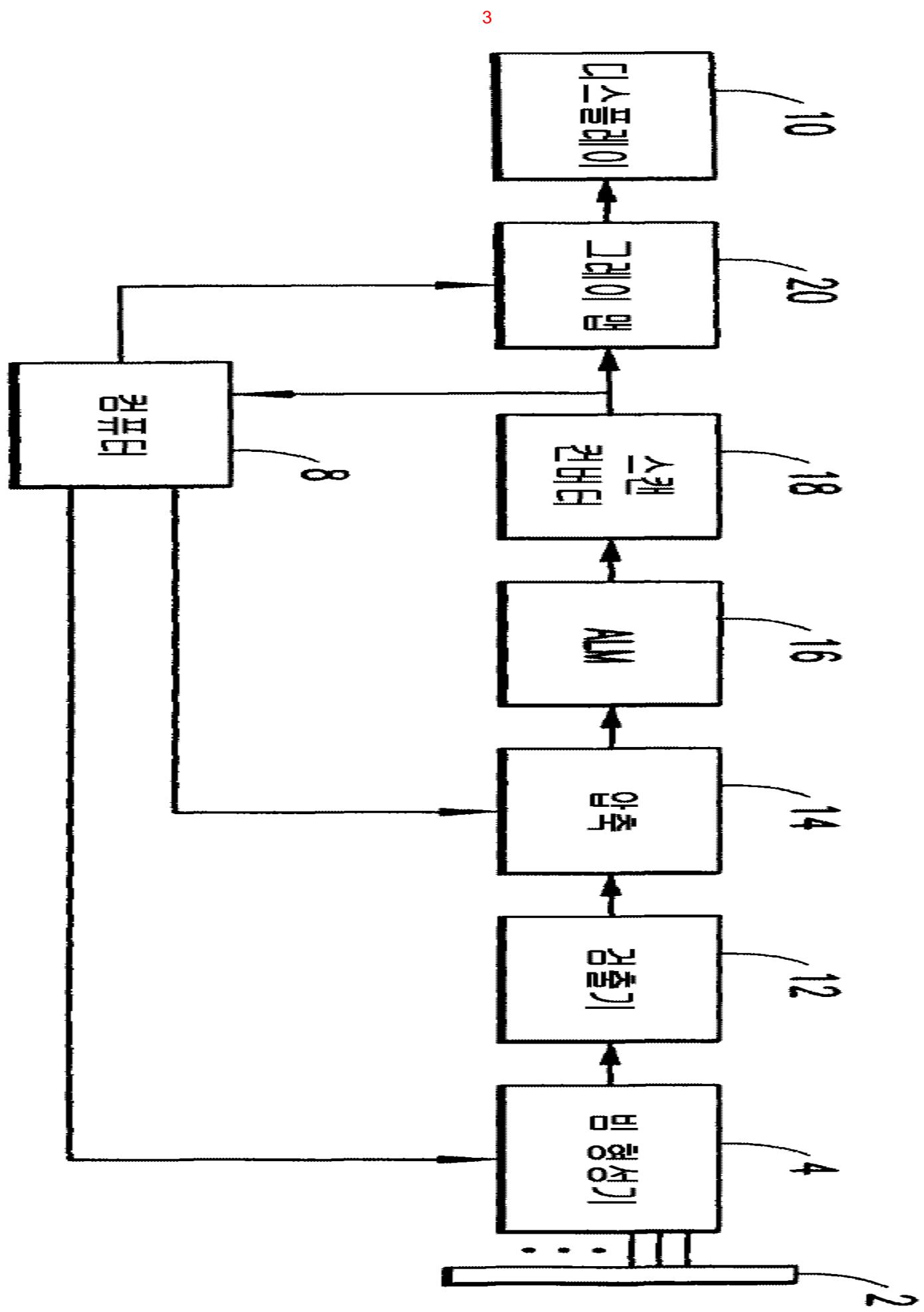
1



2

발생 횟수

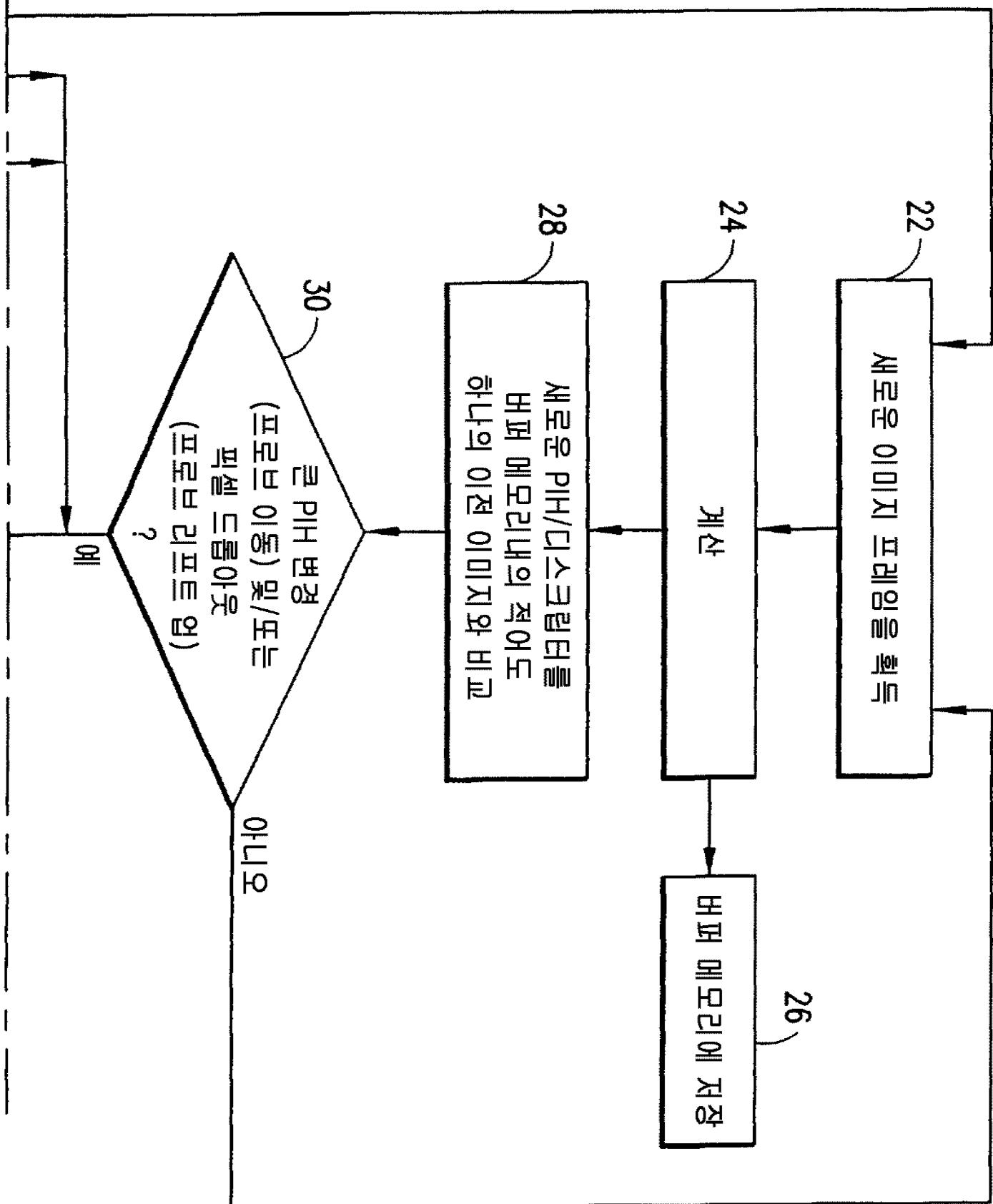




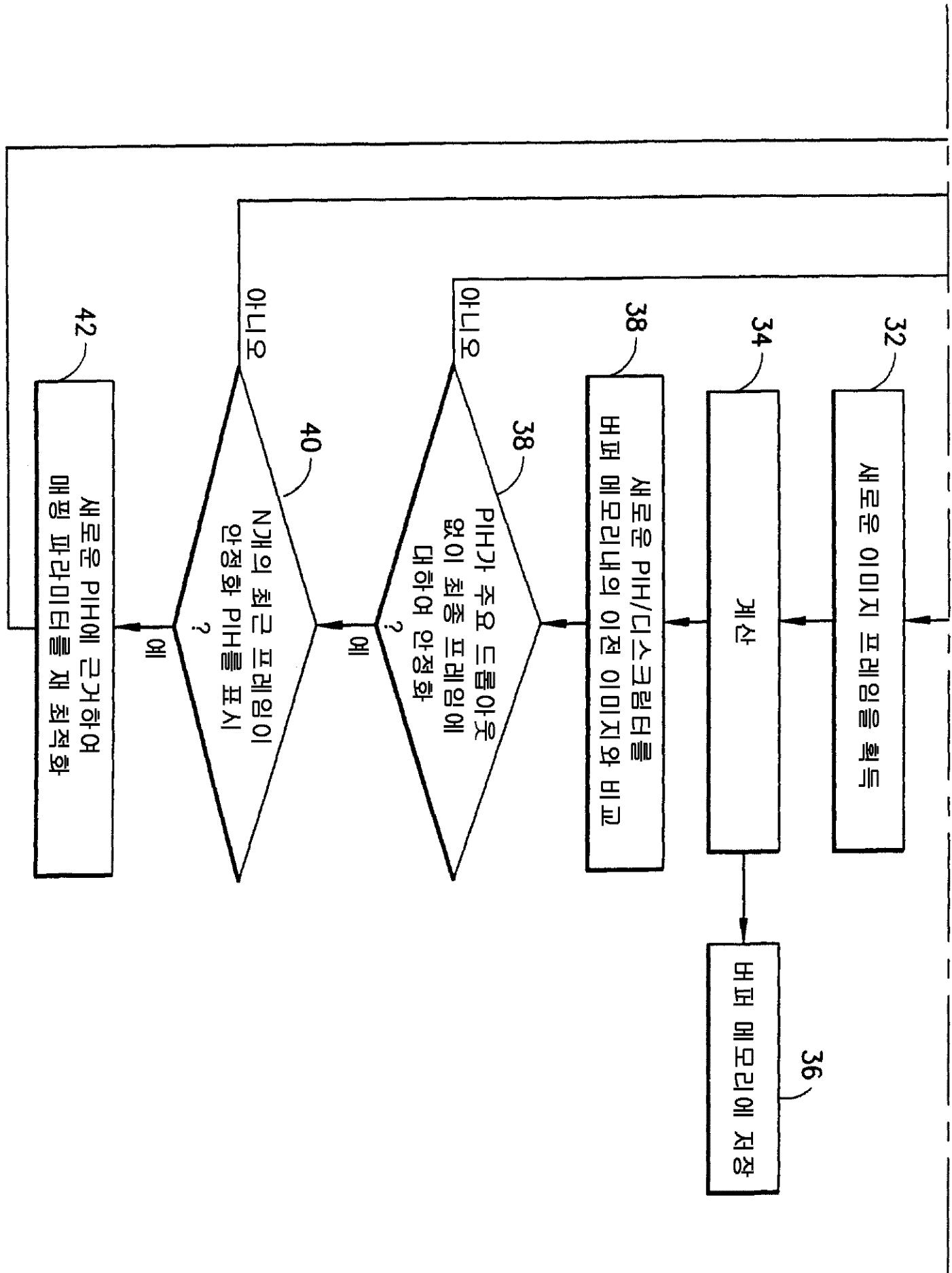
도 4a

도 4b

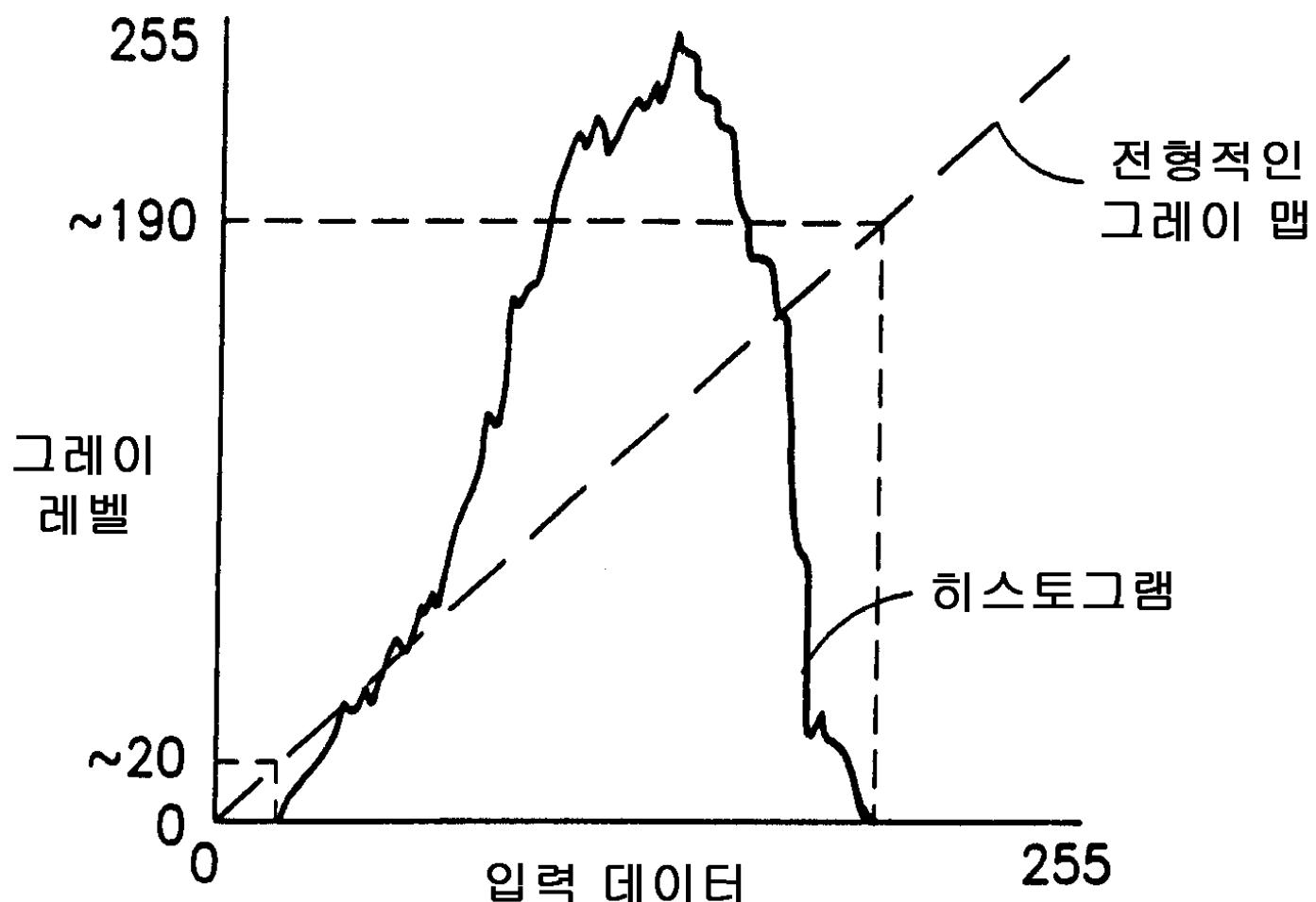
4a



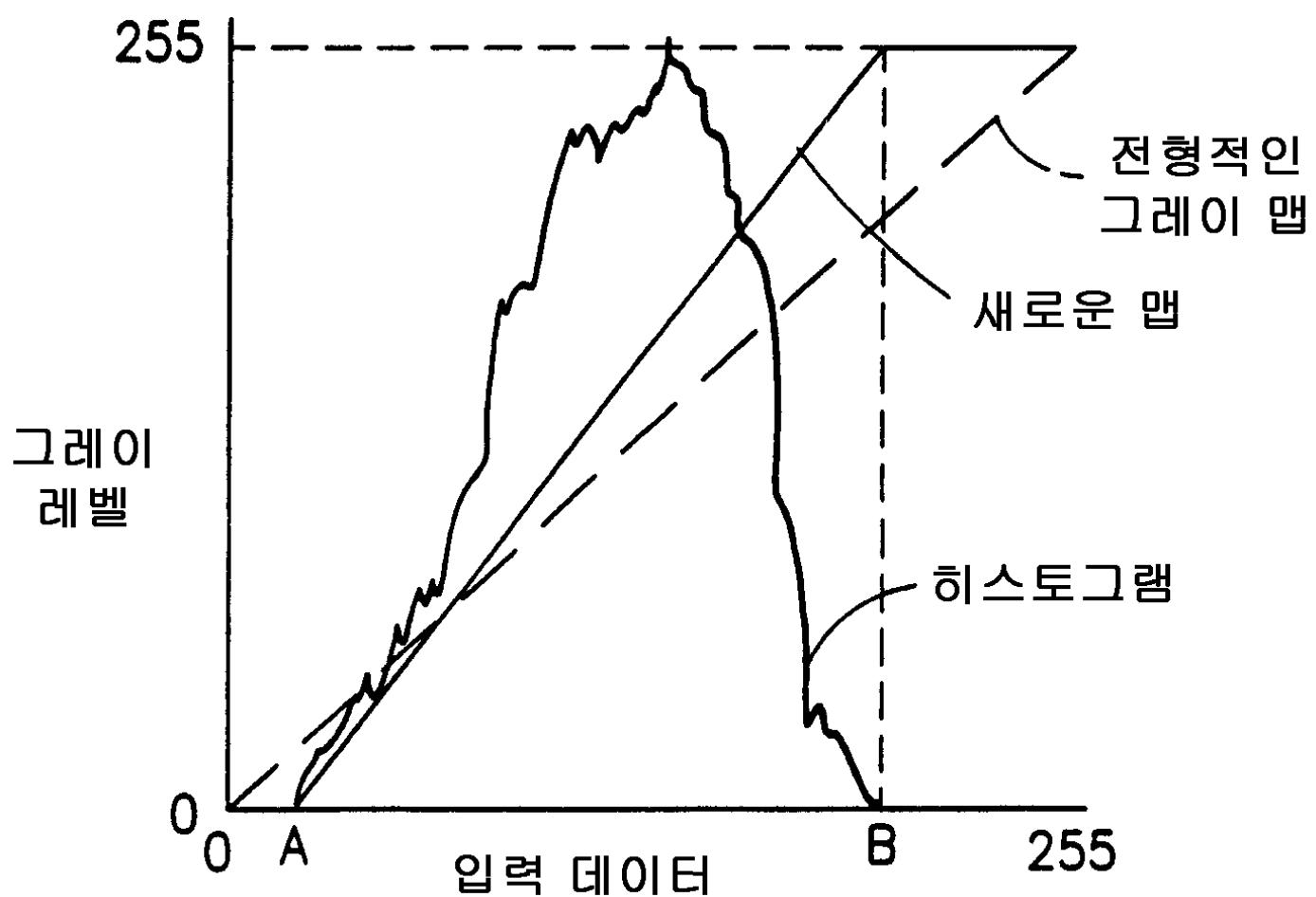
4b



5



6



专利名称(译)	超声成像系统和自动重新优化方法		
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摘要(译)

目的：提供一种基于像素强度直方图调整成像系统操作的方法和装置，以响应超声成像系统中连续图像帧的像素强度直方图中预定变化的发生而优化操作参数。

