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(22) 2003 04 04

(71) 가 161

(72) 137 1107

3 843 113 604

132-2 103 602

(74)

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(54)

2

1 2 CCD

2

3 2

4 2

(S) (121) (M) (121) (121)가 (123)가 (M)
 (123) (111)가 (125)가
 3 2
 (213) (211) (211) (217)
 (215) (219) (217) (217) (213)
 (217) (211)가 (211)가 (215)가
 가 (211) ()
 3 4] 가 3 [1] [

$$W = d_1 \cot \theta_1 + 2D \cot \theta_1 + d_2 \cot \theta_1$$

$$W_1 = d_1 \cot \theta_1 + d_3 \cot \theta_1$$

$$d_3 - d_2 = X \cos \theta_1$$

$$W - W_1 = X \sin \theta_1$$

[1], [2], [3] [4] D [5]가

$$D = \frac{X}{2 \cos \theta_1}$$

(M) , 2 (S) , (M) (S) , , .

4 2

2 X Y (300).

2 Z (320).

5 2

6 5 X Y (400).

2 Z (420).

6 (440). (M2)

(M2) (460). 1 (S)

6 (M1) (480). (M1) (500). 2 (M)

(M) (M1) (520). (M)

1 (S) 2 가 (M) (S) (520). (M)

5 6 , 가 (M2)

가 (M2)

7 2

(M)가 (M)

(M1) 가 7 (M)

가 [6] (S) [9]가 . 가 [

$$W = d_1 \cot \theta_1 + 2t \cot \theta_2 + 2g \cot \theta_1 + d_2 \cot \theta_1 \quad 6$$

$$W_1 = d_1 \cot \theta_1 + 2t \cot \theta_2 + d_3 \cot \theta_1 \quad 7$$

$$d_3 - d_2 = X \cos \theta_1 \quad 8$$

$$W - W_1 = X \sin \theta_1 \quad 9$$

[6] [9] (M) (S) g [10]

$$W - W_1 = X \sin \theta_1 = \{2g + (d_2 - d_3)\} \cot \theta_1 = 2g \frac{\cos \theta_1}{\sin \theta_1} - X \cos \theta_1 \frac{\cos \theta_1}{\sin \theta_1} \quad 10$$

, [9] [10] [11] .

$$X \sin^2 \theta_1 = 2g \cos \theta_1 - X \cos^2 \theta_1 \quad 11$$

, [11] [12]가 .

$$g = \frac{X}{2 \cos \theta_1} \quad 12$$

[12] 가 (M) 가 (S) 가 D .

(57)

1.

, ; (Z) Z ; X 가 (X) X ; (Y) Y .

2.

1 , 가 가 .

3.

2 , 가 .

4.

1 , 가 .

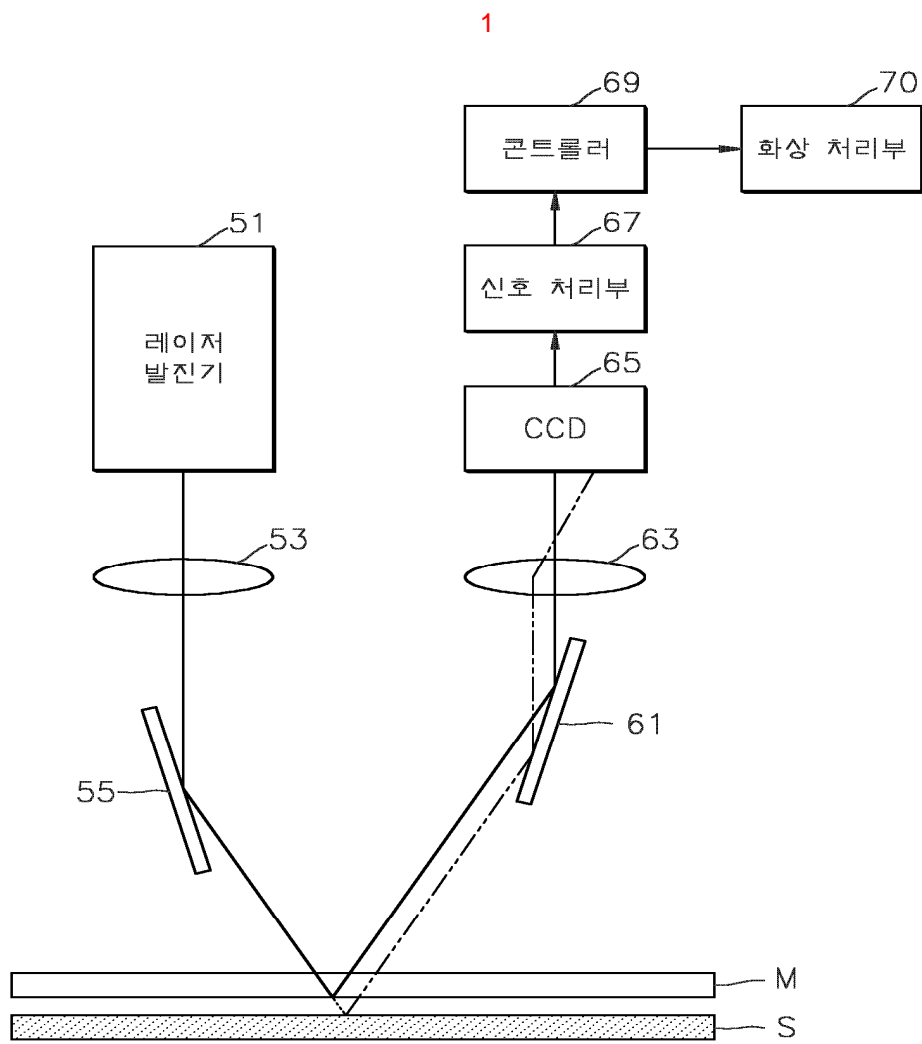
5.

1 , .

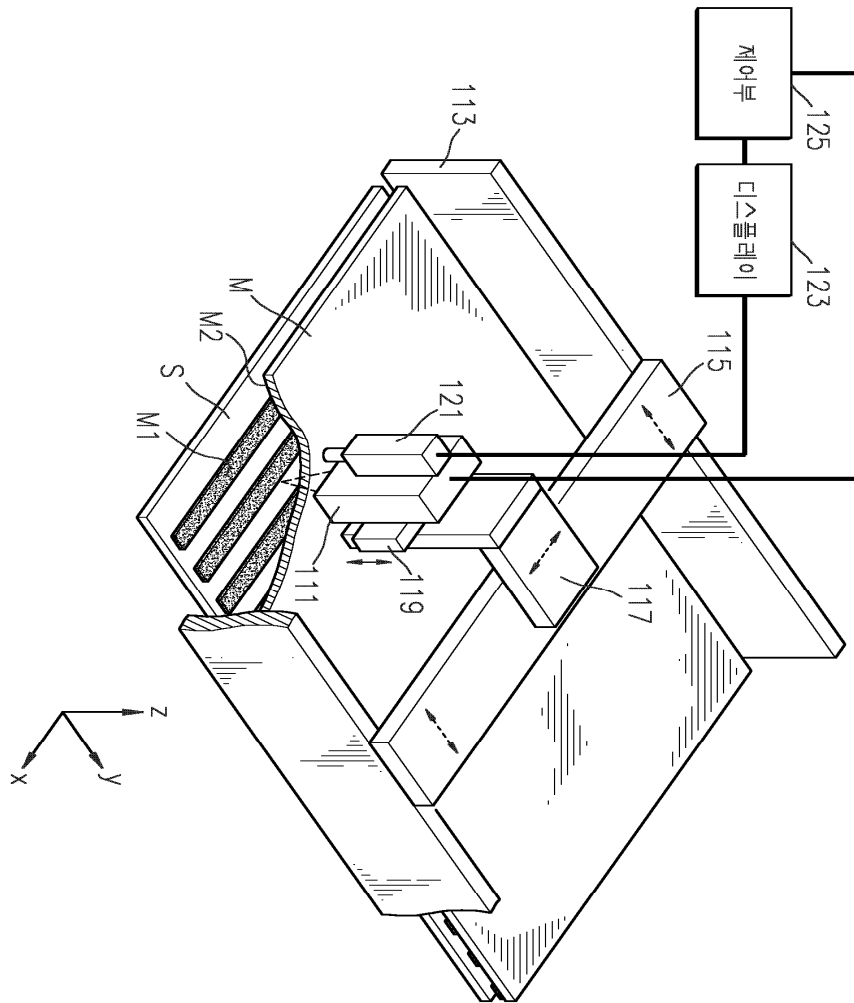
6.

, ; 1 ; 2 ;

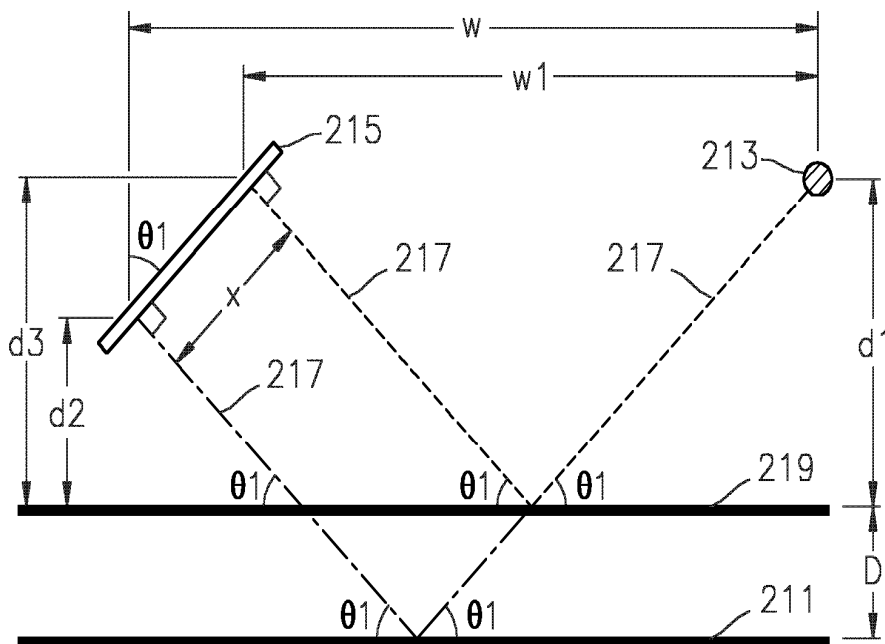
1 2 .



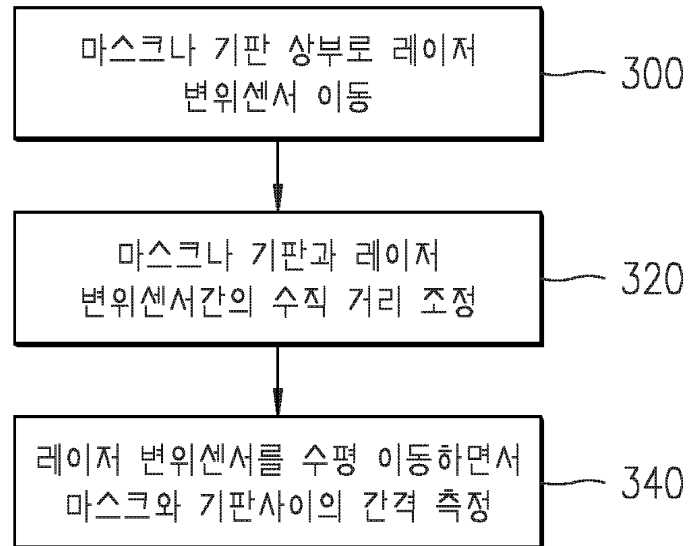
2



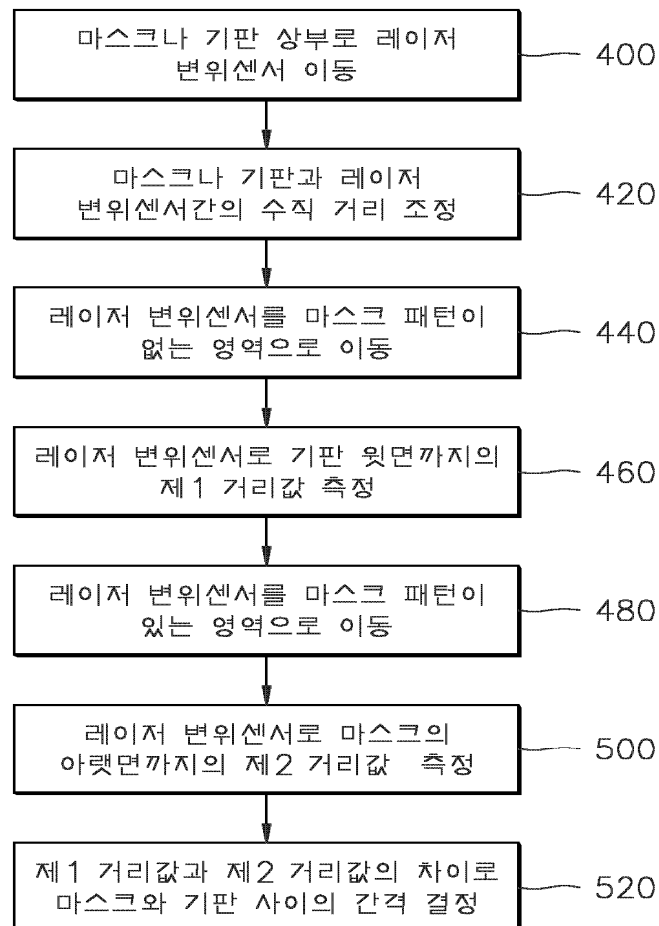
3



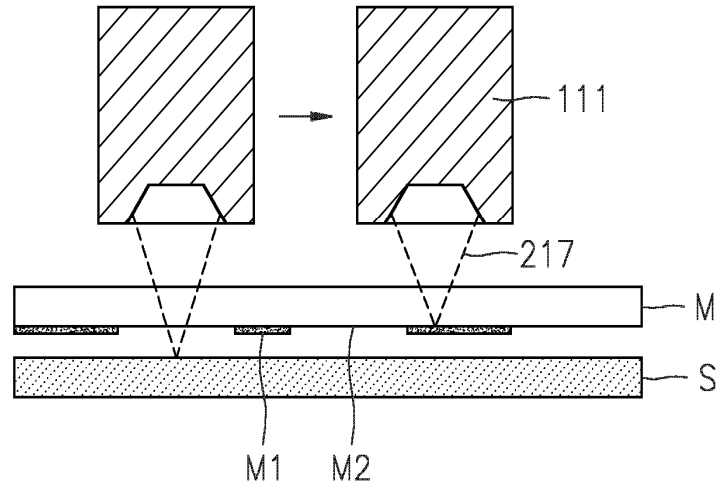
4



5



6



7

