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(74)

:

(54)

가 , (30) , B , B/P 3.2 = ROPC (30) , OPC P Po

1

, , ROPC, ,

1

2 1

3 (m, n)

4

5 B .
 6 ROPC .
 7 .
 * *
 10: 12:
 14: 16:
 18: 20: RF
 22: 26:
 30: 32: (LDD)

, CD-R/RW DVD-R/RW 가 , OPC(O
 ptimum Power Control) ROPC(Running Optimum Power Control) 가 (, OPC(O
) , OPC , (PCA) 가 (,
) , ROPC , 가 ,
 , 가
 5 , 가 , 가 ,
 , ROPC , (B) ,
 , B Po, B Bo, , OPC P,
 B B ,

[1]

$$Bo/Po = B/P =$$

(6) , ,

[2]

$$P = B/Bo \cdot Po$$

B

7 가 2 가 PCA
 , B/P= , B/P= , ROPC

$$B^m / P^n = (B / P)^{m/n} \quad (1,1)$$

m=1, n=1.5, 10, 3.2

$$P = (1 + 1/n) \cdot B / B_0 \cdot P_0 \quad B = B - B_0, P_0$$

(m, n)

$$B^m / P^n = (m=1, n=1.5, 10) \quad ROPC \quad ROPC$$

(m, n) = (1, 1) () ()

가 ROPC (m, n)

[]

1 가 CD-R/RW DVD-R/RW 가
 (10) (10) (10) (LD)
 (PU)(12) (10) (LDD)(32) (12)
 RF (10) 가 (14)
 (20)
 (14) (12)
 (16) (18) (16) (12)
 (10) (18)
 (12) 가 4 가
 가 가

RF (20), (12) RF (22) (26)
 (30) (22), OPC

[3]

$$= (|A1| - |A2|) / (|A1| + |A2|)$$

. A1 AC RF (30), A2 (22), OPC

, (22), ROPC (30) ROPC (5) B B
 B (30)

(26), 2, RF (30), 3T PLL

(30), (14) RF (20), LDD(32), (26)

(30), (strategy) LDD(32) DVD-R, 3T 14T(T
 () 3T, 4T (30), OPC LDD(32) (10) PCA 가 (22)

Po, ROPC (30), Po (10) 오가 (22)
 B, B Po Po

2, 1 OPC (30) 가 (30), OPC ROPC (3)
 0) OPC, OPC ROPC CPU, ROM RAM

OPC (22) 오가 (3) Po B () Bo Po m

ROPC, n(m, n) (22) B P Po, ROPC m

[4]

$$Bo^m / Po^n = B^m / P^n =$$

P (m, n)=(1,1), (m, n) (, m<n) 가
 (m, n)=(1, 1.5 10), (m, n)=(1, 3.2)가

3, m=1, n (= |
 . n 1.5 10 오가, n=3.2, n=1 가 가, n 1.5 10

가

, ROPC , (m, n)=(1, 3.2) ,

[5]

$$Bo/Po^{3.2} = B/P^{3.2} =$$

Po P .

5 가 . ,

[6]

$$P = (B/Bo)^{1/n} \cdot Po$$

$$= (1 + B/Bo)^{1/n} \cdot Po$$

$$= (1 + 1/n \cdot B/Bo) \cdot Po$$

, n=3.2

$$B=B - Bo$$

. ROPC , 6 , B (22) P , .
6 1 P가 ,

4 , (30) ID , 가 , 가 (S101),
(30) ID OPC , (S102). ,
S103). (m, n) (1, 3.2) (30) A , (m, n) (10) , (m, n)=(1, 3.2) (m, n) (,
가 (10) , (m, n)=(1, 2.5) (10) , (m, n)=(1, 1.5) (1, 10) B
(10) .

(ROPC) Bo (S104). (30) OPC Po

B , Po (S105). ROPC , 6
P

CI ,

, , 가 가 .

, (m, n)=(1, 3.2) ROPC P , (m, n)
가 (10) , 가
6 P , (m, n)=(1, 1.5) .
(10) (m, n)=(1, 1), (m, n)=(1, 2), (m, n)=(1, 3.2) 가
, P, B n n 가 .

, m<n , (m, n)=(2, 3) 가 .

가 , B , ()
(m, n)

가 , 10 (m, n)=(1, 1.5) , 20 (m, n)=(1, 3)
 가 (10) , (m, n)

(57)

1.

B , B ,

$B^m / P^n =$

(, (m, n) $m < n$ (1,1))

P

2.

1 ,
 $m = 1$, $n = 1.5$ 10

3.

2 ,
 $n = 3.2$

4.

2 3 ,

$P = (1 + 1/n \cdot B/Bo) P_0$

(, Bo ,

$B = B - Bo,$

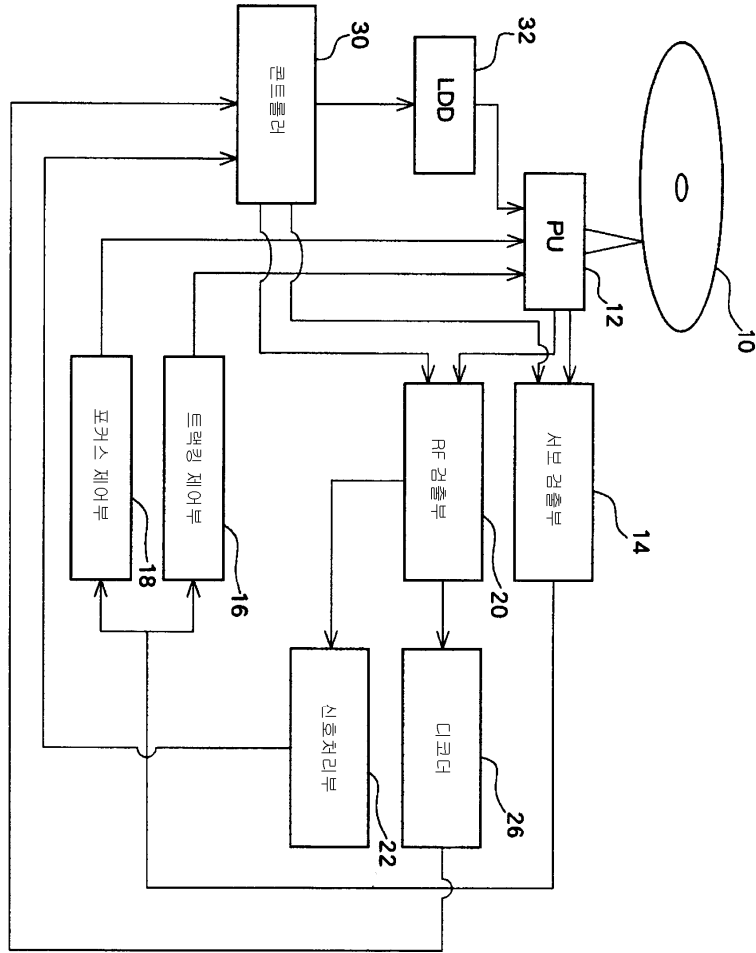
P_0)

P

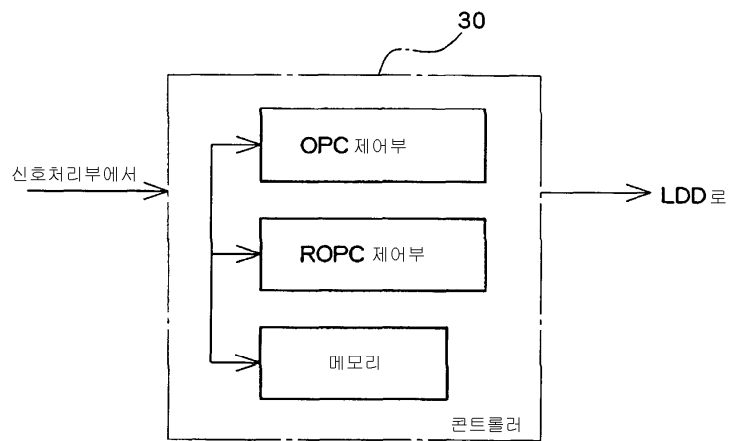
5.

1 ,
 (m, n)

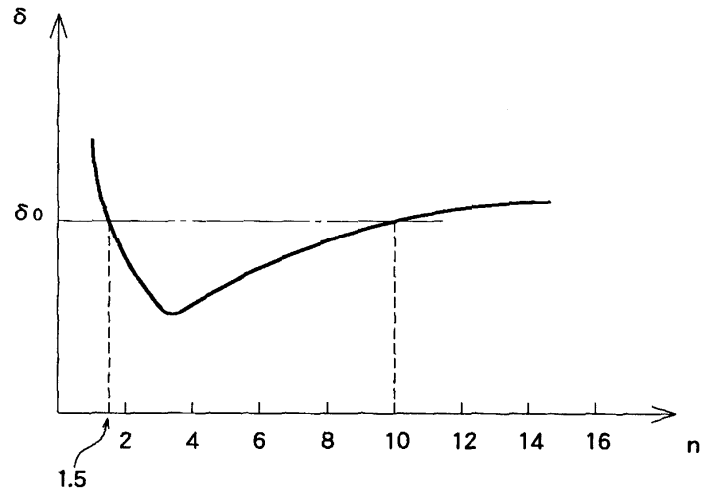
1



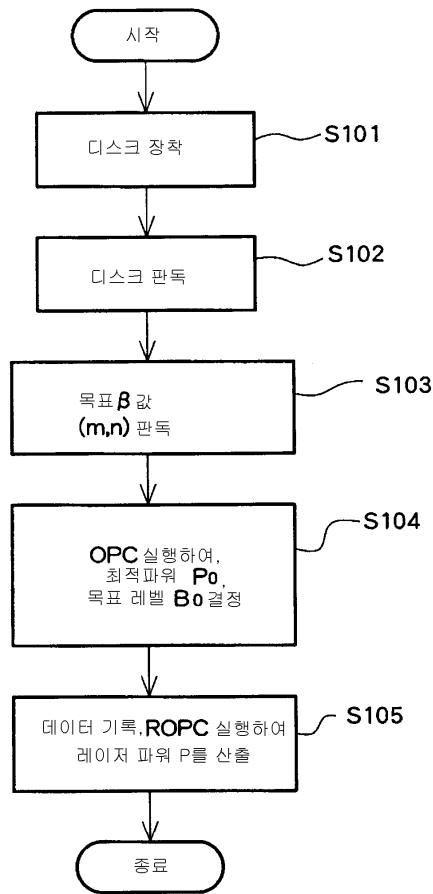
2



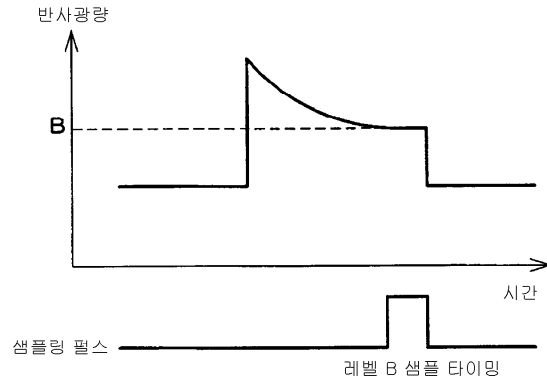
3



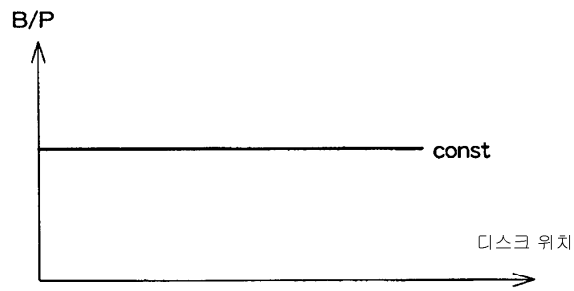
4



5



6



7

