

(19)
(12)

(KR)
(B1)

(51) 。 Int. Cl.7
G11B 7/004

(45)
(11)
(24)

2004 05 03
10-0429884
2004 04 21

(21) 10-2002-0014461
(22) 2002 03 18

(65)
(43)

10-2003-0075311
2003 09 26

(73) 416

(72) 201-1504

860 307-1101

(74)

:

(54)

가 / , 가 /

가

가

4

- 1
- 2 DVD-RAM
- 3
- 4
- 5

6
7
8

DVD-ROM (pit) / CD-ROM, CD-R/RW, DVD-R/RW/RAM 가

가 (Mark Position Recording) (Mark Edge Recording) RF(Radio Frequen (edge) 가 (Trailing Edge)

(space) 가 (Leading Edge) / (tear drop)

가 , DVD 4 CD-R 24

가 (laser diode) (r

ecording pulse)가 , HD-DVD 가 4.7Gbyte(

)가 , 23Gbyte(,), 50Gbyte 가

(track pitch)가 (munimum mark length)가

(cross erase)가 가

nT(, n 1

가

1 , NRZI(Non Return to Zero Inverted) (a) (b)~ (g)가
 (b) CD-RW Type() (c) (d) CD-RW Ty
 pe1,2() (e) DVD-RAM (f) DVD-R
 (g) DVD-R , T
 1 (d) CD-RW Type2 CD-RW Type1 (Toverdrive) 가
 1.5T 가 , 20%
 가 (g) new type 2 가
 , NRZI
 () 1 (e)
 A Ppeak, Pb1, Pb2 Pb3 4 가
) ()
 Poverdrive, Ppeak, Pbias 3가 A
 가
 2 DVD-RAM . 2.6GB(Giga Byte)
 DVD-RAM (first pulse), (multi pulse
 chain), (last pulse), (cooling pulse)
 가 Ppeak(power of peak),
 Pb1(power of bias1 or erase), Pb2 (power of bias2 or cooling) Pb3(power of bias3 or bottom) 4 가
 가
 (2 A) (Ppeak) (leading edge)
 (Ppeak) 가 , (Ppeak) 가 가 Ttop
 (2 B)
) 가 , 3 (Pb3) (Ppeak) 3 (Pb3), (bottom level)
 가
 (2 C) (Ppeak) 가 (trailing edge)
 , (2 D) 2 (Pb2),) 가 2 (Pb2) 1
 (Pb1) Pb3 Pb2 Pb1 가
 (2 E) 1 (Pb1) 가
 , 1 (Pb1)
 3 , (a) NRZI , (
 b) , (c) (d) 3 가
 / ()가 , 600 가
 300 가 가 가 가
 가 300 가 가 가
 600 / 가 가
 (4.7G Byte DVD-RAM) (2.6G Byte DVD-RAM
)

3 (c) 가 3 (b)

가 3 (d) 가 3 (b)

가 가 가 가 가 가 가 T 1 가

가 가 가 가 가 가 가 가 가

3 (b) 가 가

(top level), (center level), 1(

), 2(), 3() 가

4 (b) 가

가 가

4 (b)~ (g)가 4 (c) CD-RW type1

RZI(Non Return to Zero Inverted) (a) CD-RW type (b)~ (g)가 4 (c) CD-RW type1

4 (b) CD-RW type2 4 (e) D

VD-RAM type 4 (f) DVD-R type

4 (g) new type 4 (b) 1 (b) (Pb1) 가

4 (b) 1 (b) (Ppeak) 1T 가

4 (c) 1 (c) 가 nT(, n 1) n

4 (c) 1 (c) (Ppeak) 1T 가

4 (d) 1 (d) 가 nT(, n 1) n

가 4 (d) 1 (d) (Ppeak) (Pb) 1T

drive) 가 Ttop() (Pover

(Pb2) 가 nT(, n 1) n (P

b) 4 (e) 1 (e) (Pb1) 가

4 (e) 1 (e) (Ppeak) 1T 가

4 (f) 1 (f) 가 nT(, n 1) n

4 (f) 1 (f) (Pb) 가

(Pb) 가 (Ppeak) 1T

가 nT(, n 1) n

4 (g) 1 (g) (Ppeak) (Pb) 1T

가 가 가 가 가 (Pover

drive) , 가 nT(, n 1) , n .
 5 on-start t
 ype, off-start type, 1.5Tw type . on-start type 2 , off-start type
 (negative) , 1.5Tw 1.5T 3 . on-start t
 ype peak level , off-start type
 peak level .
 6 , 6 (a) center , 6 (b) (bottom)
 , (c) (top)
 7 .
 , .(s700)
 .(S702) (Rewritable/Recordable)
 () , 6
 , .(S704)
 .(S706)
 S702-S706 , .(S708)
 08) 가 / .(S710)
 8 , (802), (804), (806),
 8 (808) 8 , (808)
 , 가
 (leadin area) (leadout area)
 가
 (802) ,
 (802) 7 (804)
 , (804) 가 ,
 (802) ,
 (Rewritable/Recordable) ,
 (802) , , , ,
 (804) ,
 (804) NRZI (802) ,
 (804) NRZI (804) 가 5 가
 RLL(Run Length Limited) ,
 806) (804) (806) (808) ((808)
 , 가 (810) NRZI ,

(57)

1.

가

/

가

/

1 2. ,

1 3. ,

1 4. ,

1 5. , nT(, n 1) n

1 6. ,

1 7. ,

(Rewritable/Recordable)

3 () 2 ; 1 ; 가 3 ; 4 ; 1 2 ; 5

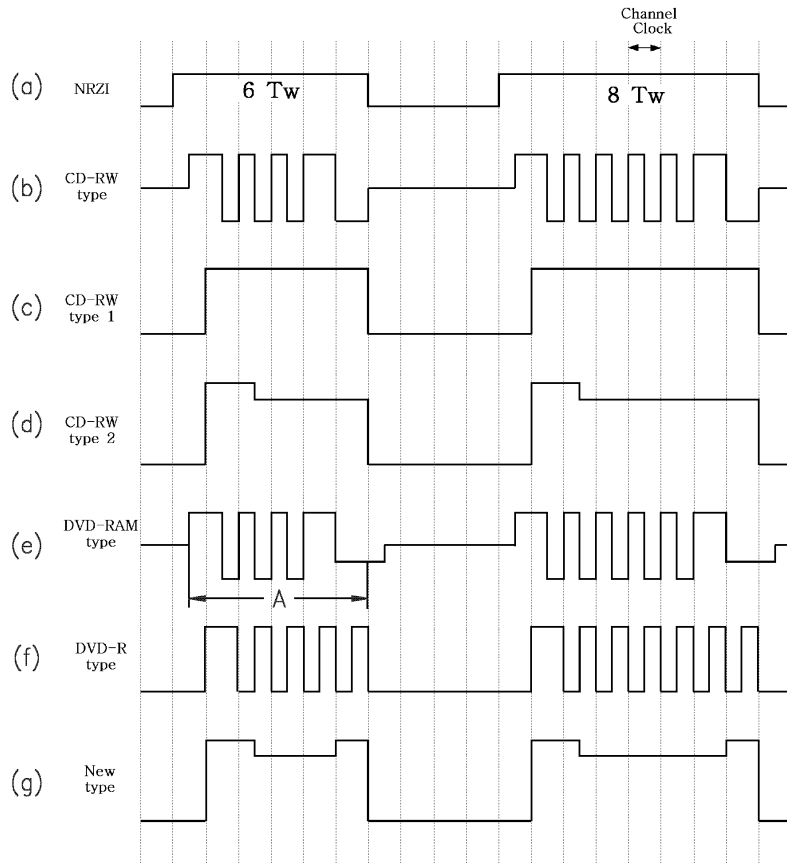
6 8. ,

6 9. ,

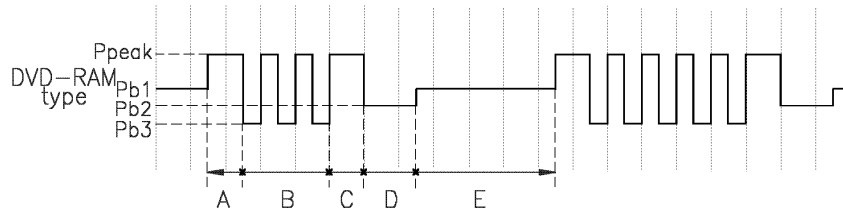
10. ,

가

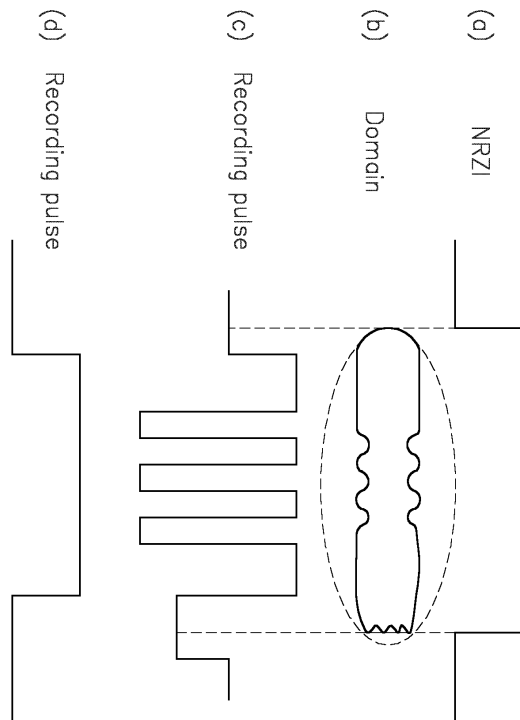
1



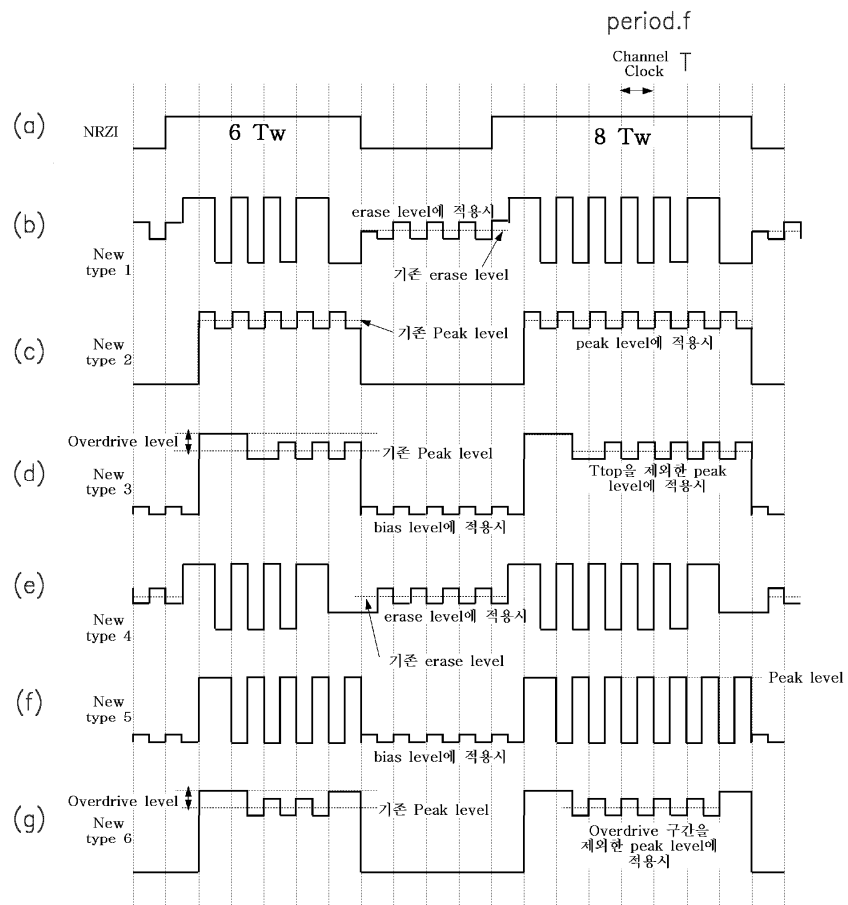
2



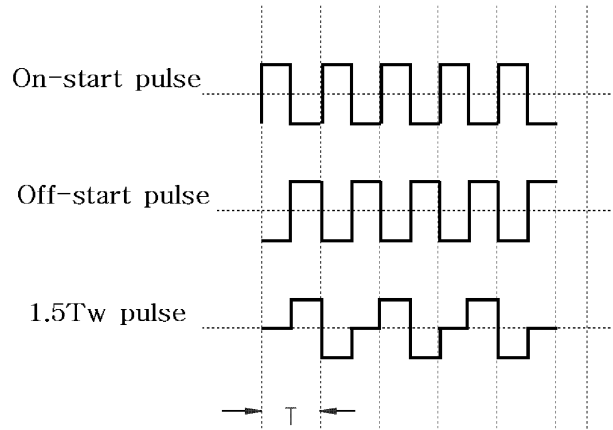
3



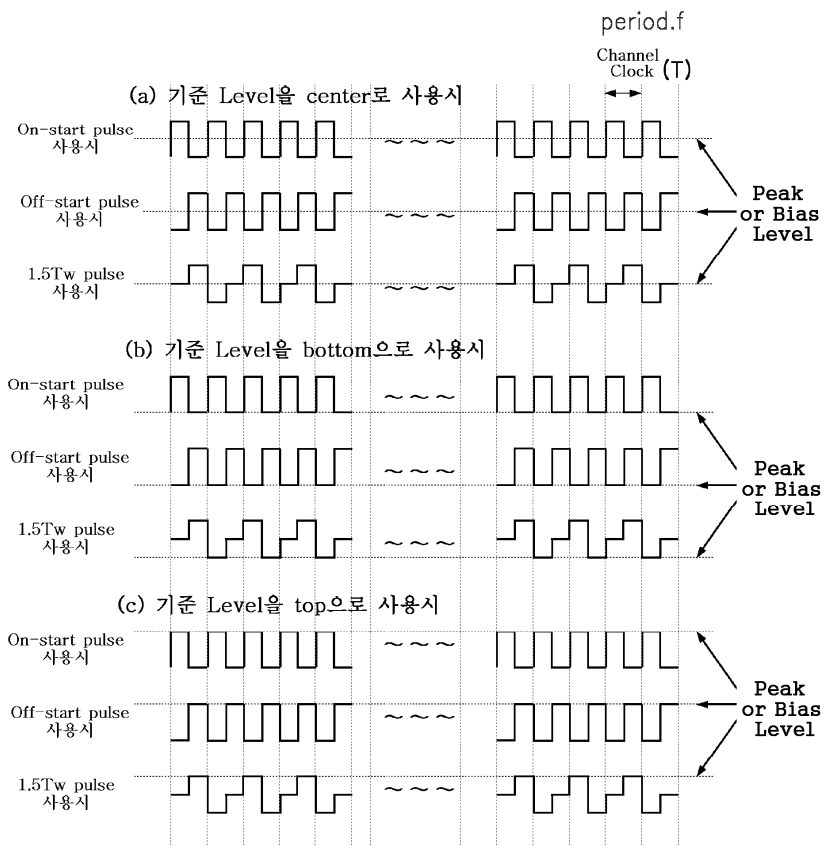
4



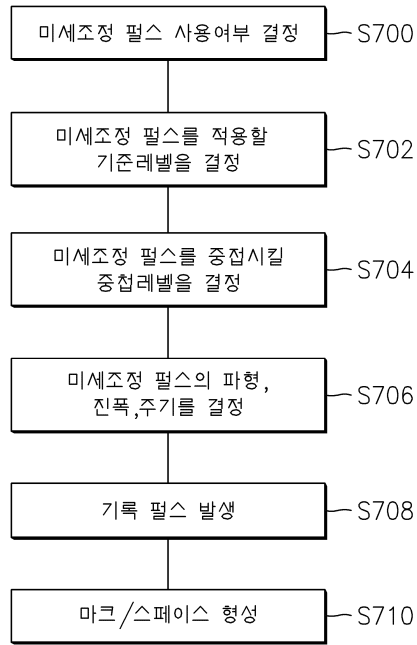
5



6



7



8

