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(12)(KR)
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G11B 20/10(11)
(43)2001 - 0112631
2001 12 20(21) 10 - 2001 - 0032857
(22) 2001 06 12

(30) 2000 - 175875 2000 06 12 (JP)

(71) 가 가
가
1 4 1(72) 가
4 2610 가 가
4 2610 가 가

(74)

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(54) , ,

(1) (R) (BX) .
(BX) , 가 (R) , (1)가 (R)
(1) (ID) DVD - R1 , CPU(25)
(30) (29) (ID)
(R) . (1)

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IEEE 1394 [" IEEE(Institute of Electrical and Electronic Engineers)
1394 - 1995 IEEE "]

DTCP(Digital Transmission Copy Protection)

가 . , SDMI (Secure Digital Music Initiative) .

DTCP	DTLA(Digital Transmission Licensing Administrator)	URL	http://www.dtcp.com/
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가 , SDMI , DTCP , 가 .

, DTCP , DTLA .

, 가 , 가 .

가 , 가

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(maintainability) .

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가

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D

VD - R(digital video display - readable)

1 (S) (S_{in})
(recorder)(R) (BX), IE
EE 1394 (B) (BX) (S_{in}) DVD - R1
(R)

(BX) (front end unit)(20), (descrambler)(21), (demulti
plexer)(22), (decoder)(23), (24), CPU(central processing unit)(25),
(26), (extraction unit)(27), (28), (29)
(30) (31)

(R) (pick up)(2), (amplifier)(3), (demodulating unit)(4), (decry
pting unit)(5), (6), (7), (8), CPU(9), (10), (11),
(encoder)(12), (encoder)(13),
(14) (15)

(BX) (R)

(BX) (R)

()

(R) (BX) DVD - R1 (R) DVD -
BX) (S_{inn}) 가, (R) DVD -
R1 (S_{out})

, (S_{in}) (BX) ()

, (S_{in}) .

(20) (S_{in}) (S_{fe}) (21)

(S_{ds}) (21) (S_{fe}) (code) ,

(22) (22)

(S_{as}) (22) (S_{ds}) , (24)

(23) (S_{vs}) (24)

(23) (S_{as}) (S_{ad})

(24) (S_{vs}) (S_{vd})

, CPU(25) (31)

, (31) (26)

(R) , (S_{inn}) DVD - R1

, (S_{inn}) 가

(13) (S_{inn})

(12) , (S_{inn})

(11) (S_{ev}) , DVD - R1

(11) (S_{mv}) , SDMI (10)

(10) (S_{mv}) , (2) B DVD - R1

(S_d) (2) (S_{mv}) , (10) B

, (2) (S_d) () , B

DVD - R1

, CPU(9) (15)

, (15) (8)

, (S_{inn}) DVD - R1

DVD - R1 (R)

, (2) B , ()
 , (2) (3)
 .
 , (3) , (3) (S_p)
 (4)
 (4) (S_p) , (S_{dm}) (5)
 .
 (5) (S_{dm}) , ()
 5) (S_{dc}) (6) (7) .
 (6) (S_{dc})
 (7) (S_{dc})
 (S_{out})
 .
 , CPU(9) (15)
 , (15) (8)
 , DVD - R1 가
 (BX) (R)
 (BX) (S_{in}) (R) , 가 DVD - R1 ,
 DVD - R1 (R) 가 DVD - R1 , DVD - R1
 (ID)가 (2) (4) DVD - R1 (ID) C
 PU(9) (15) (14) , (B) (BX)
 .
 1 (ID)
 , (ID) DVD - R DVD - R
 , (ID) (BX)
 (B) (BX) (ID) (30) (31)
 CPU(25)
 (BX) (S_{in})가 , (20) (21)
 (S_{ds})가 (27)
 (27) (S_{ds}) DVD - R1 , (S_{dv})
 (28)
 (28) (S_{dv}) DVD - R1 (S_{dv})
 (28) (S_{mv}) (29)

R1, (29) CPU(25) (ID) , DVD -
 (S_{mv}) , (29) (S_x) (30) .
 (30) (S_x) , (R) (B)
 .
 , CPU(25) (15)
 (ID) .
 , (S_x) (R) , (14)가 (B)
 (S_x) , (10) .
 (10) (S_x) (S_d) .
 , (10) (S_d) (2) .
 , (2) (S_d) (S_{in}) B , DVD - R1
 , CPU(9) (15) .
 , (BX) , (S_{in}) 가 DVD - R1 .
 , (BX) (R) , (BX) (ID)
 R) , (R) DVD - R1 가 ,
 , DTCP (BX) (R)
 , DVD - R1 (ID)
 (S_x)가 , (ID)가 (R)
 (S_x)가 .
 , (B) (BX) (R) (S)
 . (BX) (BX) 가
 (B) , DVD - R1 .
 , ,
 , 가 , DVD - R1 DVD - RW(DVD - Re - Recordable, 가 DVD)
 DVD - RAM(DVD - Random Access Memory, DVD) , (so
 lid state) .

, CPU(9) CPU(25)
 가 (flexible) , (microprocessor)
 , PC(personal computer,) CPU(9)
 CPU(25) .

(57)

1.

(R) (1) (S_{in}) (R)
 (BX) ,
 (ID) (25),
 (29),
 (30)
 (BX).

2.

1 ,
 (29)
 (BX).

3.

1 ,
 (ID) (1)
 (BX).

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1 3 ,
 (30)
 (BX).

5.

(BX) (1) (R) ,

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(ID)

(R)

(25),

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(ID)

(BX)

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(BX)

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(R).

(ID)

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(1)

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(BX) ,

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(BX) (R) (1) (R) 가 ,

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16.

(R) (1) (BX) ,
(BX) ,

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