

(19)
(12)

(KR)
(A)

(51) . Int. Cl.⁷

H04B 7/10

H04B 7/08

H04B 1/06

H04B 1/16

(11)

10-2004-0075326

(43)

2004 08 27

(21) 10-2004-7009072

(22) 2004 06 11

2004 06 11

(86) PCT/IB2002/004882

(87)

WO 2003/050993

(86) 2002 11 20

(87)

2003 06 19

(30) 60/341,508 2001 12 13 (US)
10/185,385 2002 06 28 (US)

(71) , , 1

(72) , 5656, 6

, 5656, 6

, 5656, 6

(74)

:

(54) C O F D

가 . IEEE(Institute for Electrical and Electronic Engineers) 802.11a ETSI(European Telecommunications Standards Institute) HiperLAN2(High Performance European Radio Local Area network version 2) ,
(WLAN)

· CDFDM 가
· CDFDM 가
· (coded orthogonal frequency division multiplexing)

1

2

3, 4A - 4D 5A - 5D

6

1 3 6,

1
 (100) , (103)
 2.11 HiperLAN2 (103)
 가 , (101)
 가 .
 , (101) (105)
 (108), (104), (106)(
 (IFFT) (109),)
 가 (110)),
 (101) (103) (102)
 가 (110) .
 (102) , (111a 111b)
 (112a, 112b),
 (114a, 114b),
 C2(117a, 117b)
 (102) (111a 111b) (113a, 113b)
 (115a, 115b), (116a, 116b) (FFT)
 (C1)
 가 (111a, 111b) , (116a 116b)
 COFDM (116a 116b) ,

$$m_i^c(n) = -\min_{x \in S^c} \|y - hx\|^2, c = 0, 1 \quad (1)$$

2
 04b), (200) , 가 (202a, 202b), (203a, 203b), (204a, 2
 (205a 205b) , , , (206) (207) (201a, 201b)
 (208)

3, 4A-4D 5A-5D

(1)
 (2) 4096 250 100
 가 , 3

4A 4D

4A 1/2 3/4 BPSK(binary phase shift key) (BER)
 4B 1/2 3/4 QPSK(quadrature phase shift key); 4C 1/
 2 3/4 16-QAM(quadrature amplitude modulation with sixteen discrete levels);
 ; 4D 2/3 3/4 64-QAM(quadrature amplitude modulation with sixty-four discrete levels)

-- 4-6 (dB) --

가

5A 5D

5A 1/2 3/4 BPSK ; 5C 1/2 3/4 16-QAM ; 5B 1/2
 3/4 QPSK ; 5D 2/3 3/4 64-QAM -- 2-5 dB

6
 n (601), n 0 (600)
 (602a-602n). , , ,
 (603a-603n). , , (605). 가
 (604a-604n), (606).

COFDM

Ds) 가 , , ,
 (EEPROMs) : (ROMs) 가
 (CD-ROMs) (DV

가

(57)

1.

(102) :

(116a, 116b) , , (116a, 116b) , (112a, 112b)
 12b) (116a, 116b) ; (112a, 1

(116a, 116b) (118) ;

(118) (120) , (102).

2.

1 , (116a, 116b)
 (projected constellation symbols),
 (102).

3.

1 , (116a, 116b) , (countpart)
 (cumulative least squares) , (102).

4.

3 , 1 0 (116a, 116b) , (102).

5.

1 , (coded orthogonal frequency division
 on multiplexing) , (102).

6.

(100) :

(101) ;

(101) 가 (103) ;

(102) , (102) :

- (116a, 116b) , , (116a, 116b) , (112a, 112b)
 12b) (116a, 116b) ; (112a, 1

(116a, 116b) (118) ;

- (118) (120) , (100).

7.

6 , (116a, 116b) , (100).

8.

6 , (116a, 116b)

, (100).

9.

8 , 1 (116a, 116b)
0 ,

(100).

10.

6 , , (1
00).

11.

: ,
;
;
;

12.

11 , :

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13.

11 , :

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14.

13 , : 1 0
,

15.

11 , :

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16.

: ,
;

17.

16

18.

16

19.

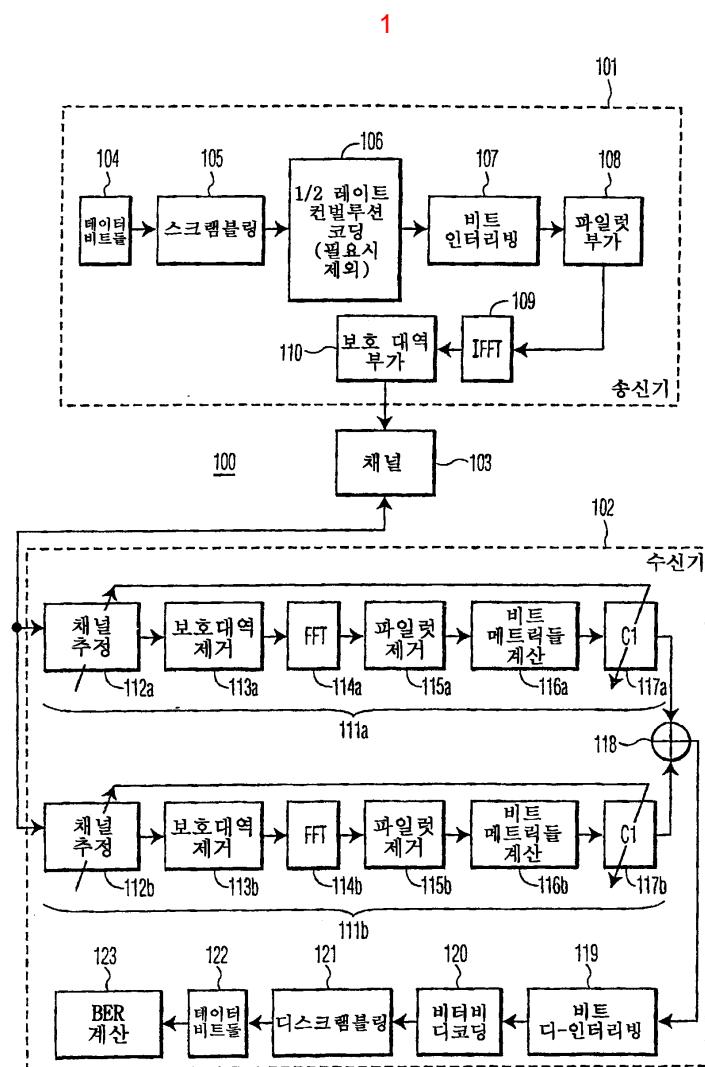
18

1

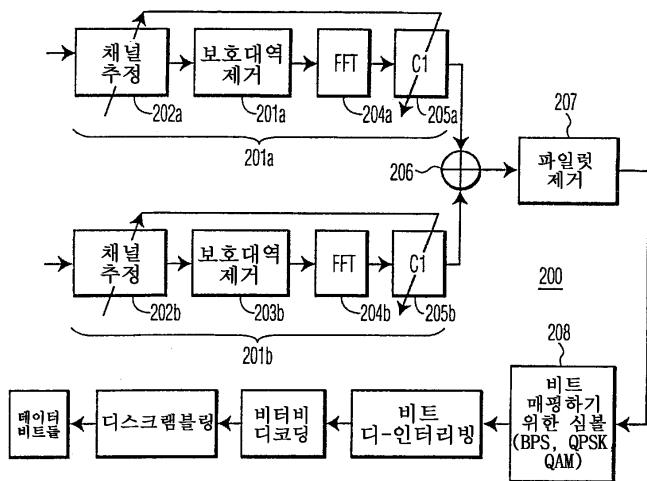
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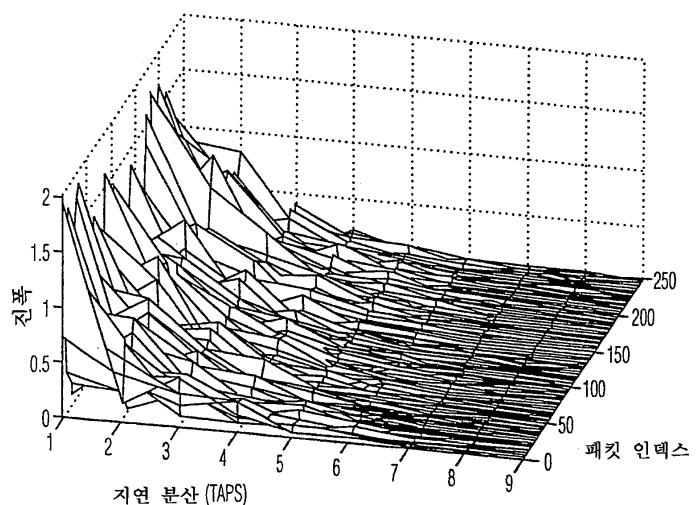
16



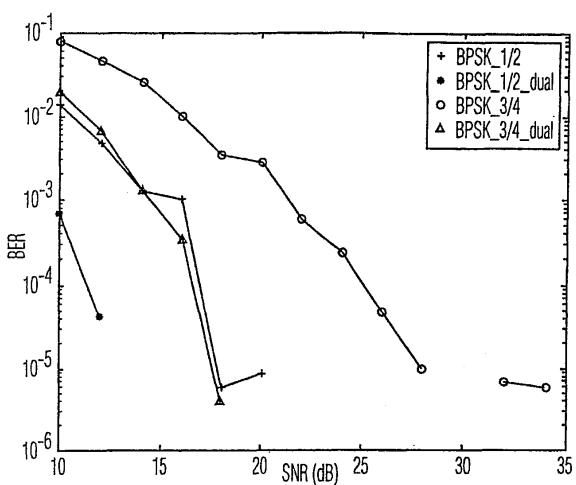
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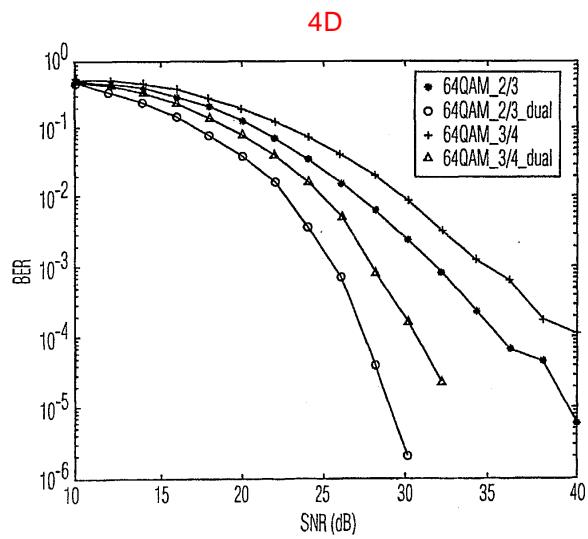
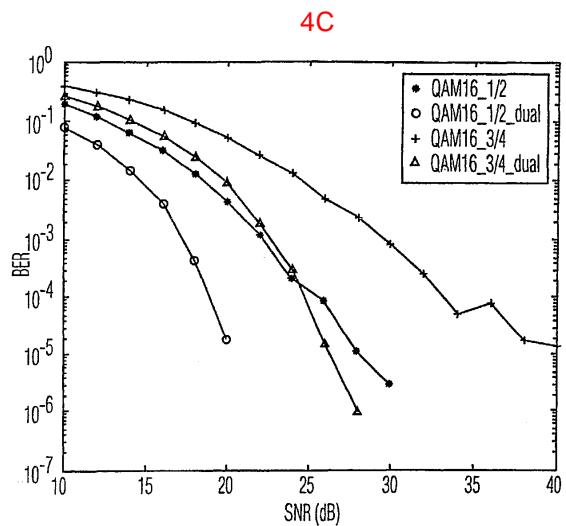
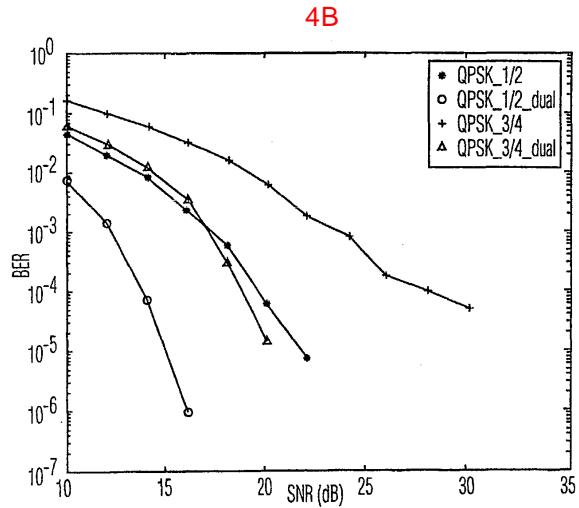


3

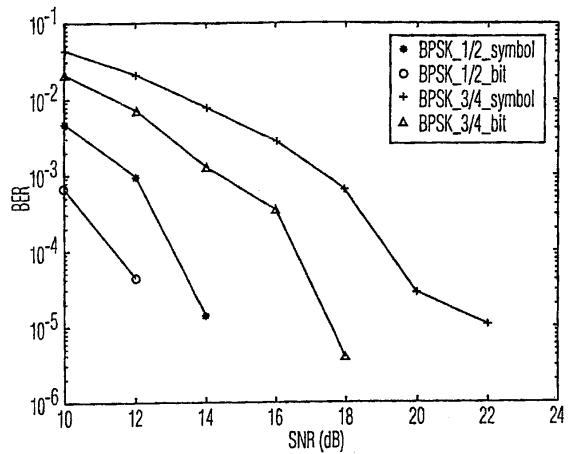


4A

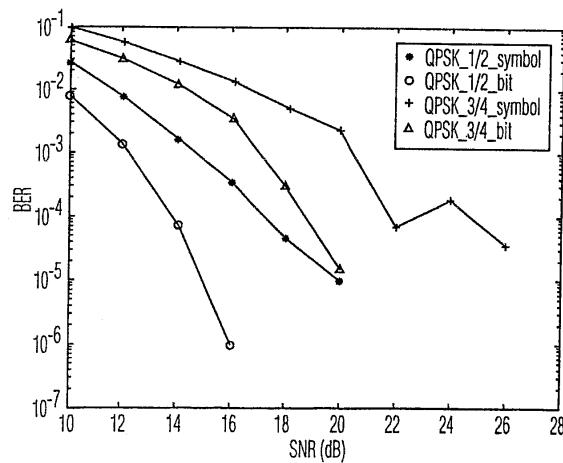




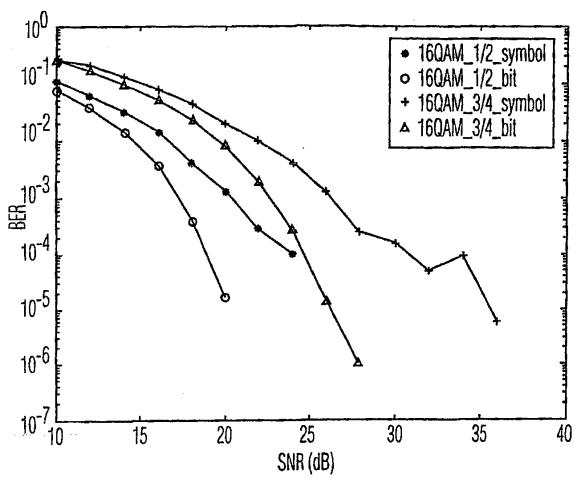
5A



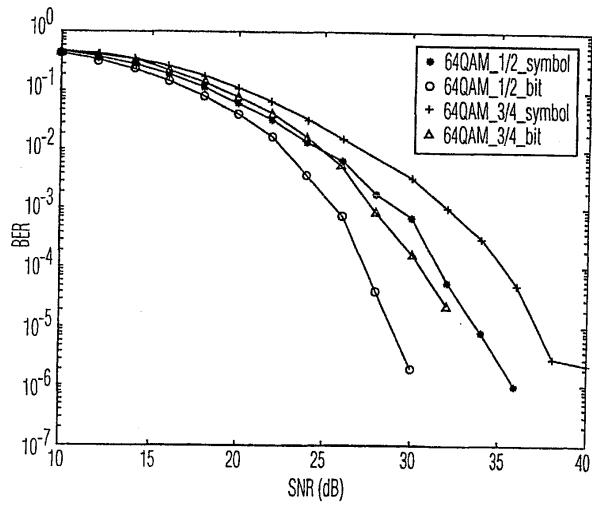
5B



5C



5D



6

