

(19)
(12)

(KR)
(B1)

(51) 。 Int. Cl. ⁶
H04J 11/00

(45)
(11)
(24)

2002 05 04
10 - 0335443
2002 04 23

(21)
(22)

10 - 1999 - 0022297
1999 06 15

(65)
(43)

2001 - 0002477
2001 01 15

(73)

3 416

(72)

211 - 16

12 804

(74)

:

(54)

(OFDM)

.

,

,

,

(flat)

,

,

,

,

,

,

가

.

가 가

,

.

2

1a (OFDM)

1b 1

2 (OFDM)

3 (OFDM)

4a 4c (OFDM)

(OFDM) (OFDM) LAN

IEEE 802.11a BRAN ETSI HIPERLAN TYPE 2 LAN

Cox) OFDM (Timothy M. Schmidl) (Donald C. (Timing and frequency synchronization of OFDM signals) ' 1a 1b 5,732,113

1a 1b , 1/2 가 2 (A) , (B), (C) (autocorre lation) (IFFT) A B

가 (peak point) (variance)

LAN 20 MHz 64 200 kHz
LAN
OFDM

가

OFDM

(OFDM)

(flat)

가

OFDM 1/2

2

(OFDM)
, (a)
; (b)
, (flat)
; (c)
; (d)
; (e)
;
.
.
.
2 (OFDM)
, 3 (OFDM)
, 4a 4c
3
(OFDM)
4a 4c
.
2 (OFDM)
(20), (21), (22), (23), (24), (25)
(21) (212), (214), (216), (218), (219)
(22) (222), (224), (226)
(24) (242), (244), (246), (248),
(249)
4a 4c (OFDM)
.
le) (payload) (OFDM) . OFDM (preamb
AGC(automatic gain control:)
4a (SYNC_A)
OFDM 63 1/2 32
(300) , OFDM 가 가
OFDM 1/2
(20) (212) R(k)
32 (D) (302) R(k-D)
214) R(k-D) (216) R(k) (window s
(218) (moving average) , (218) (304)
ize) D, , 32 (216) (219) (306).
, (21)

(222) (308). (224) 4b
(flat) (310) .

(224)
가 . , (224)
가 . , , (224)
()
()
.

, (226) (312).
, 가 , ± 16
(226) , , (20)
(mode_ctrl) . , (22)
.

, (226) 2
() ,
() .

, (20) (mode_ctrl)
.

(23) (22)
.

(242) , (244) . (246)
, (248) . ,
(246) (248) . (249)
, (24)
.

(25) 4c 가 . ,
가 . ,
.

, ± 16 가
가 가 . ,
.

,
LAN .

가

가 가 ,
 . ,
 LAN .

(57)

1.

(OFDM)

,
 , ;
 ;
 (flat) ;
 ;
 ;

;

가

;

(OFDM)

2.

1 ,

;

(OFDM)

3.

1 2 , ,

OFDM 1/2

(OFDM)

4.

1 , ,

(OFDM)

5.

1 , ,

(OFDM)

6.

1 , ,

;

;

(OFDM)

7.

1 , ,

2

;

(OFDM)

8.

(OFDM)

,

(a)

;

(b)

(flat)

,
;

(c)

;

(d)

;

(e)

;

(OFDM)

9.

8 , (d) ,

(OFDM)

.

10.

8 9 , ,
OFDM 1/2 (OFDM)
.

11.

8 , (b) ,
(OFDM) .

12.

8 , (b) ,
(OFDM) .

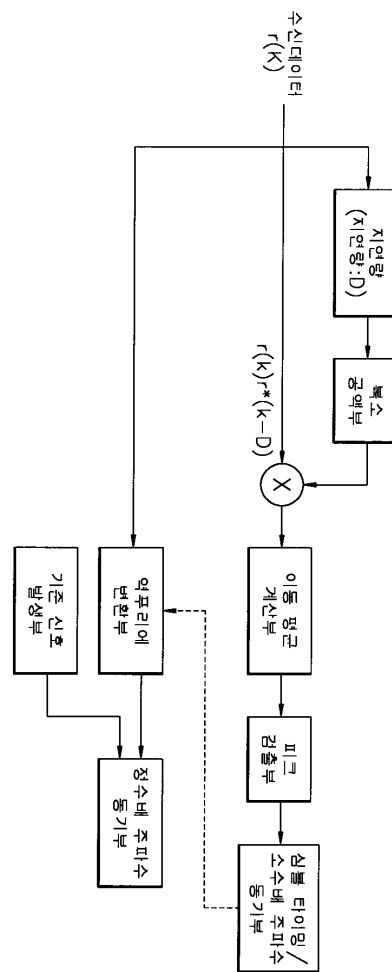
13.

8 , (b) ,
;
(OFDM) .

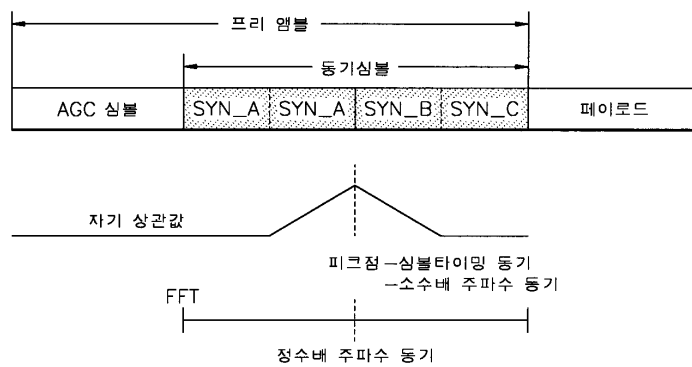
14.

8 , (c) ,
2 ;
;
(OFDM) .

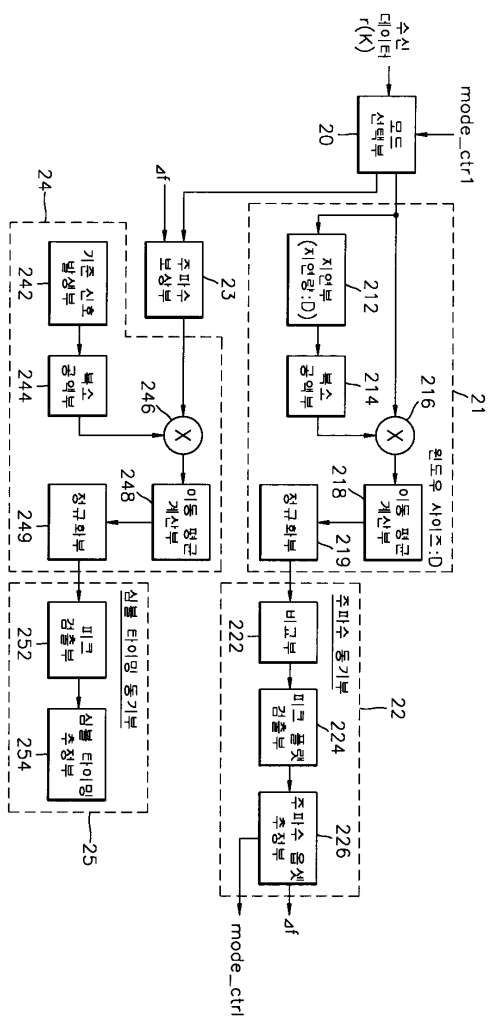
1a



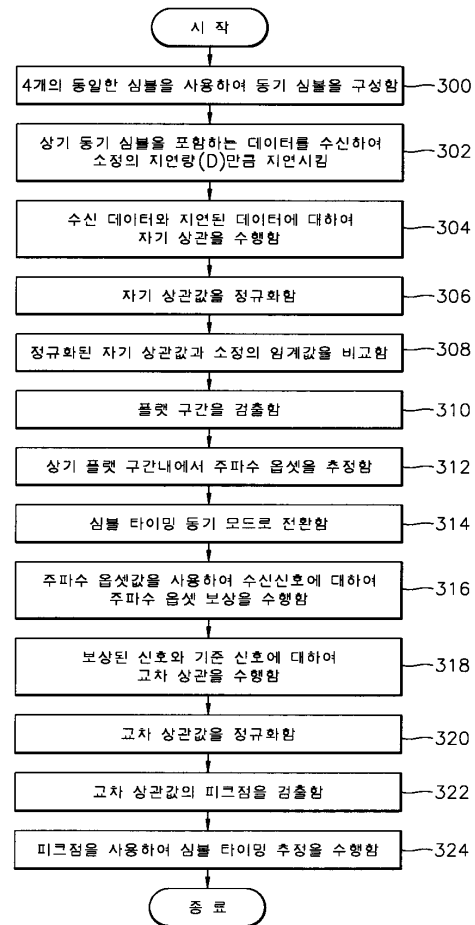
1b



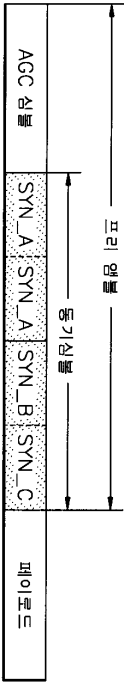
2



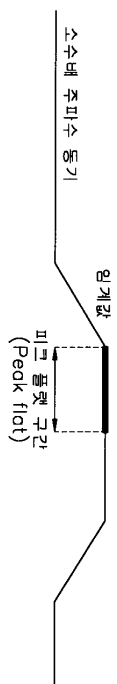
3



4a



4b



4c

