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(22) 2001 05 28

(71) 881 154 - 1502
가 110

(72) 881 154 - 1502
가 110

6 106 - 5

(74)
:

(54)

I Frequency Division Multiplexing; OFDM)	(Preamble)	(Orthogona
		, 가
Control: AGC)	ADC (Analog - to - Digital Converter)	가
		(Automatic Gain

OFDM

ADC , 가

2

1 (null) OFDM (11) (1)

2) 1 (13) OFDM 가 (14) (14) 1 (13) (1)

가 (15) " (High)" " 가 (17) (13) (C1) , "

" 가 (C1) (16) 1 (13) (C1) , "

가 OFDM " " (17) (SW) (

on) , (16) " (17)

" 가 (17) / 가 (R1/R2) * C1 (17)

/ (C1) R1 * C1 OFDM (SW) (off) , (17)

(C1) 가 2 (18) (11) OFDM

가 가 OFDM (17) (SW) (off) OFDM

가 가 OFDM (17) (SW) (on) 가

OFDM

(17)

OFDM OFDM

가 , ,

OFDM

OFDM (

" ")

2 (" ")

OFDM

A/D ; OFDM 가 ; A/D ; OFDM 가
 ;
 ;
 ;
 D/A , OFDM ;

OFDM

, 3
 (31) , OFDM 가 A/D (32) , A
 /D (32) 가 (35) , (34)
 33) , (36)
 , (35) , (34) , (P_{DET}) (36)
 (36) , (36) D/A(Digital - to - analog)
 (37) .

m 가 2 N
 OFDM

OFDM , (36) , 가
 (33)가 1 (31) , (35) ,
 (34) , (34)
 (P_{DET}) (35)
 " 1 " ,
 (35) 1 , A/D (P_{REF})
 1 가 (P_{REF}) ,
 (36) 2 가 (P_{REF})
 1 2 (36) 1

1
1 " " (33) (2)
가 . , 1 가 A/D

A/D
2

1 가 가 2
. 2 (P_{REF})
1 2 , 2
1 " " (36)
" " (33) 2

1 .

1

$$P_N(m) = \frac{1}{N} \sum_{n=m-M/2}^{m+M/2-1} \{R_{OFDM}(n)\}^2$$

, N

, R_{OFDM}(n)

OFDM

n

1 , 2

1

, 2

1

1 , 2

2

$$G_k = G_{k-1} \cdot \sqrt{\frac{P_{REF}}{P_k}}, k=1, 2.$$

, G₀

, G_k

A/D

(32)

, P_k

가

가

, A/D

OFDM

OFDM

가

OFDM

가

2

OFDM

(57)

1.

OFDM

가

;

A/D

;

A/D

가

;

OFDM

1

, 2

;

;

;

D/A

O

FDM

2.

1

가

OFDM

OFDM

3.

1 OFDM

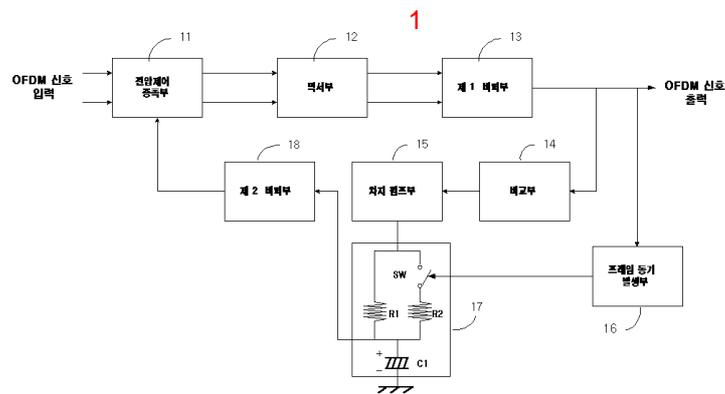
가

가

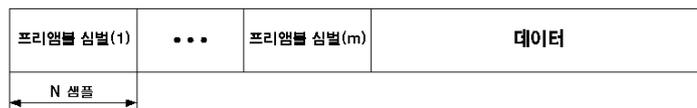
1 ;

2

OFDM



2



3

