

(19)
(12)

(KR)
(B1)

(51) 。 Int. Cl. ⁷
H04B 1/69

(45)
(11)
(24)

2002 07 25
10 - 0344693
2002 07 06

(21) 10 - 2000 - 0057289
(22) 2000 09 29

(65) 2002 - 0025461
(43) 2002 04 04

(73) 890 - 20

(72) 6 - 902

(74)
:

(54)

(finger)

(lock)

AFC(Automatic Frequency Controller)

가

가

;
;
;

2

, CDMA, , AFC

1 AFC

2

<

10 : BBA 11 : PN

12 : 13 :

14 : 가 15 :

16 :

(finger) (lock)

AFC(Automatic Frequency Controller)

(multi - path)

(mutipath propagation paths)

(Lake)

path diversity effect)

(finger)

(despreading)

(correlator)

AFC

1 AFC

(Base Band Analog: BBA) 10

2

(Inphase:I)

(Quadrature:Q)

BBA 10 I Q

(PN despreading)11

(pilot fil

ter)12

(Cross Product Frequency Difference Detector:CPFDD)13

. CPFDD13

(Freq_Err)

가 4

CPFDD13

Freq_Err 1/4

1

Freq_Err1 가

14

(SUM_FE) . SUM_FE Freq_Err2, Freq_Err3 Freq_Err4가 가 14
 (Loop Filter)15 15 (V
 otage Controlled Ocillator:VCO)16 , 16 (TRK_LO_AD
 J) 0

4) AFC , ((un
 - look)) 4 가 (, - (un
 (, (look)) , , 가 가 가

16 AFC가 가 가 가 가 가

(Muti - carrier CDMA system) AFC

AFC

AFC(Automatic Frequency Controller) ,

Base Band Analog) ;

(PN despreading);

(Cross Product Frequency Difference Detector:CPFDD);

;

;

가 ;

가

(loop filter)

;

(Voltage Controlled

Ocillator:VCO)

CDMA

IS - 95A

IS - 95B
(3G - 3 x MC)

가

가 가
(3G - 1 x MC)

가 3 3

가

3G - 3 x

3

가

가

, 3

가
H/W S/W

가

. 3 x MC

4 12

가

가 12

3

2

3 3 x

(3G - 3 x) 3

4

가 BBA10

, BBA10

가

(

I)

(Q)

PN

11

가

, 12

가

21

가

21

m

20

m

가 14

. 가 14

20

가

. 가 14

(loop filter)15

(Voltage Controlled Oscillator:VCO)16

15

가 (3G - 3 × MC) 1 가 (3G - 1 × MC) 가 3 , 3 3 -

가 가 .

(57)

1.

;

가 가 ,

;

;

2.

AFC(Automatic Frequency Controller) ,

Base Band Analog) ;

(PN desreading);

(Cross Product Frequency Difference Detector:CPFDD);

;

;

가 ;

(loop filter)

(Voltage Controlled Oscillator:VCO)
Automatic Frequency Controller).

AFC(Au

3.

2 ,

가

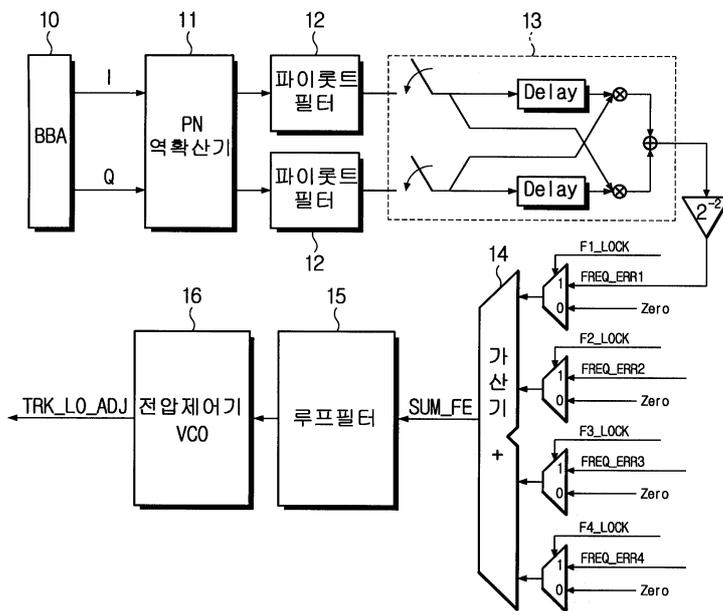
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AFC(Automatic Frequency Controller).

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