



, , , / , (LAN), (WAN)

(transparent)

(overlay)

(CDMA)

cdma2000,

CDMA

(RF)

( )

CDMA

CDMA

가

가

2

1

1

(RF)

1

1

1

2

1

2

2

1

가

2

2

가

1  
2  
3

1

2

4  
 5 (long spreading code)  
 6 1  
 7 1  
 8 1

(100) (100) cdma 2000 ITU-R(International Telecommunication Union-Radiocommunication) RTT(Radio Transmission Technology)  
 CDMA (100)  
 (GSM) "1.8 2.0 GHz CDMA  
 (Personal Station-Base Station Compatibility Requirements for 1.8 to 2.0 GHz Code Division Multiple Access Personal Communication Systems)" (ANSI); J-STD-008 CDMA  
 (100) (air interface) (PSTN; 122), (BTS; 130)  
 (113-117) (100) (MSC; Mobile Switching Center),  
 (CBSC; Centralized Base Station Controllers)  
 (120) (126-128), (124), BTS(130)  
 PSTN/ (122) (120)  
 IETF(Internet Engineering Task Force) RFC(Request for Comments) 1112 RFC 2236  
 IGMP(Internet Group Management Protocol) (113-117)  
 , 1993 7 , Washington DC, 95A(Telecommunication Industry Association Interim Standard 95A; IS-95A),  
 (Mobile Station-Base Station Compatibility Standards for Dual-Mode Wideband and Spread Spectrum Cellular Systems) /  
 (IP) (113-117)  
 (113-117)가 (130) 가  
 ( )  
 2 (120) (120)  
 (messaging)  
 (137)가 )  
 2 (130) (130)  
 (201), (203), (205), 가 (211) ( )  
 215) / (140), (136), (137) (138)  
 (113) (205) / (203)  
 (130) 2  
 CDMA  
 가 (subscribing) (desubscribing) IGMP(Internet Group Management Protocol) RTT  
 IS-95A CDMA (203) (205) (203)  
 )가 (203) (113) (205) ( )  
 vice)( (FER), (BER) / ) (Quality-of-Ser  
 (130)  
 ( ) 가  
 ,가 가 IGMP (136)

가 ( , 가 가 ) ,  
 , Ack(Acknowledgment) 가 , Ack IP  
 ( , (Walsh) (long code))  
 , Ack (130) 가 (138)  
 (136) (138) PSTN/ (122) IGMP  
 , RFC 1112 / RFC 2236 가 가  
 , (130) Ack (138) IGMP  
 , ( , ) ,  
 (de-scramble) , ,  
 , 1 1 1  
 , 2 2 2  
 3 2 (203)  
 (315), (203) (301), (convolutional encoder)(312),  
 oder)(320) , (block interleaver)(316), (317), (orthogonal enc  
 (301) (310)( IGMP (310) 가 )  
 (301) 2 ( , ) /  
 9.6 ( / , ) IGMP (310) ,  
 (312) (312)  
 (subsequent maximum likelihood decoding) (310) (  
 ) (312) 2  
 ( , 1/3 ) (310)(9.6 / ) ,  
 (312) 28.8 / (314)  
 (314) (315) (316) (316) (316) (314)  
 (314) (316) , (314) (314) (314)  
 (location)  
 , (column by column manner) (314)  
 , (row by row manner) (314)  
 (consecutively input non-interleaved data  
 symbol) 가  
 (318) ( , 28.8 / )  
 (316)  
 0 / 20 18 x 32 576 가 2  
 28.8  
 ) (317) (318) (317) (320) , (318)  
 (318) (318) - 2 (modulo 2 adding) (318)  
 6 ) (318) ( , 256 ) 2 , 25  
 ) 256 256 x 256 (Hadamard matrix) XOR(  
 18) ( , 28.8 / ) (320) (3  
 (342) (short pseudorandom codes; 324)( , (long code)  
 (short code) ) , I- Q- (326) . I-  
 Q- (sinusoid)  
 (bi-phase modulate) 가 , (215)  
 ) QPSK (121) (radiated), (310) ,  
 (226) 3.6864 가 / (Mcps) 5 MHz  
 (226)  
 1.2288 Mcps ( , ) IS-95A 가 (326) 1.25 MHz

4 (205) (416), (420) (205) (401), (412), (415), (401) (410)( ( , 152.4 / ) (401) 2 (412) 153.6 / (412) ( ) (412) (410)(153.6 / ) (414) 460.8 / 2 ( , 1/3 ) (414) (416) (416) (416) (414) (414) (414) (414) (414) 가 ( , 460.8 / ) (418) (416) 가 20 (417) (418) (417) (320) (418) 5 (417) (418) - 2 (IP ) (120) (501) 32 (501) 10 (420) (420) (418) ( , 16 ) 2 (113-117) ( ) . 16 ) . 16 (418) 16 XOR ( (rev erse) 가 , I- Q- (442) ( , 460.8 / ) (424)( , ) (426) (426) 가 , ( (215) ) QPSK , (121) (410) (426) 3.6864 Mcps 5 MHz 6 6)가 1 (IGMP 가 ) (601) (136) (603) (136) 가 가 가 ,가 (607) (607) (605) RFC 1112 RFC 2236 ,가 (607) (607) , (607) (Ack ) . 1 RF (IP ) 2 (120) (609) , 1 2 7 137)가 1 (138) 1 (701) ( ) (120) (130) (137) (138) 2 (703) , (137) (138) 2 IETF(Internet Engineering Task Force) RFC 1112 RFC 2236 IGMP (132) , (705) , 1 4

e), (134) ) 2 , (707) , (137) (Leave Group Messag  
 ) IGMP , 1 , (137)가 (134)  
 ( IGMP CDMA 가 ( , IGMP )  
 ( IGMP) , RFC 1112 RFC 2236 IGMP 가  
 8 , (120) (130) (130)  
 (805) , (136) (136) IGMP IP (130)  
 6 0) , 가 IP , RFC 1112 RFC 223 (81  
 236 IP 가 ( , IGMP IP ) . RFC 1112 RFC 2  
 CDMA 가  
 가

(57)

1.

;  
 가 1 1 ,  
 ; 1 2  
 ;  
 2 ; 1 2

2.

3.

4.

5.

1 1 , 2 2 1 2

6.

7.

8.

9.

1 , 1 1  
 2 ; , 2 2  
 ;  
 1 가 1 1 ,

2

2

2

10.

9

1

1

1

11.

9

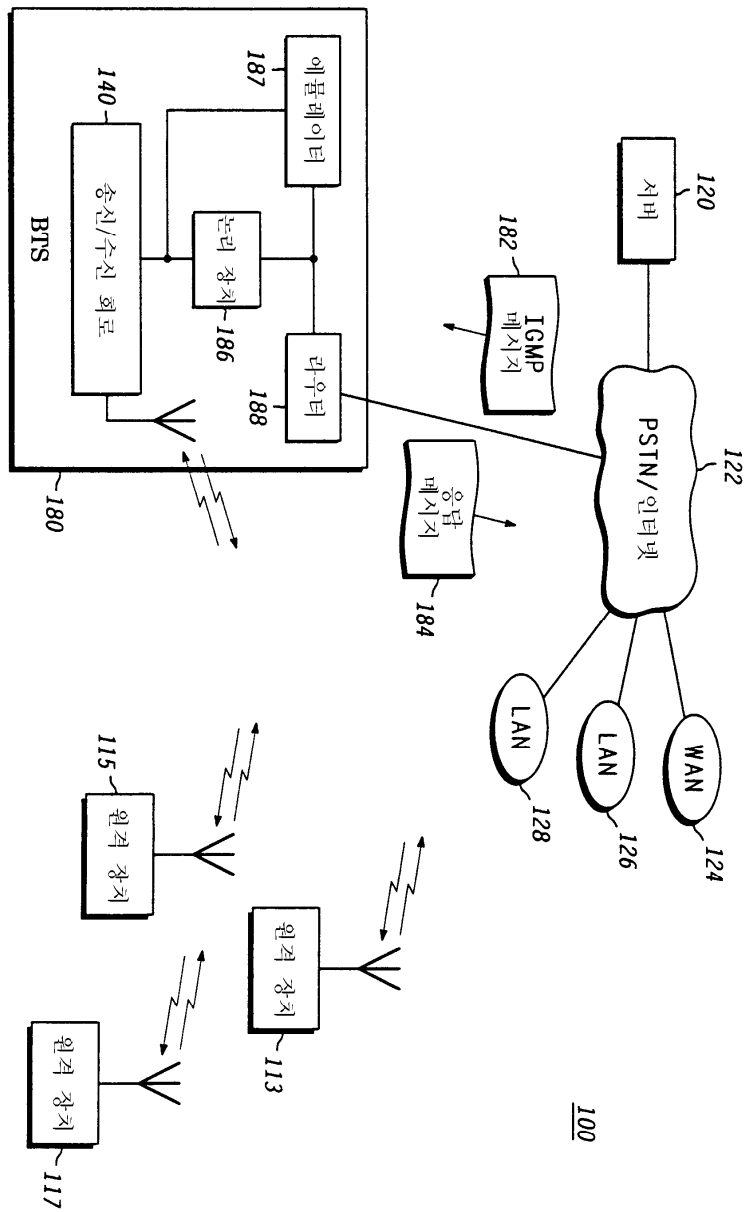
1

1

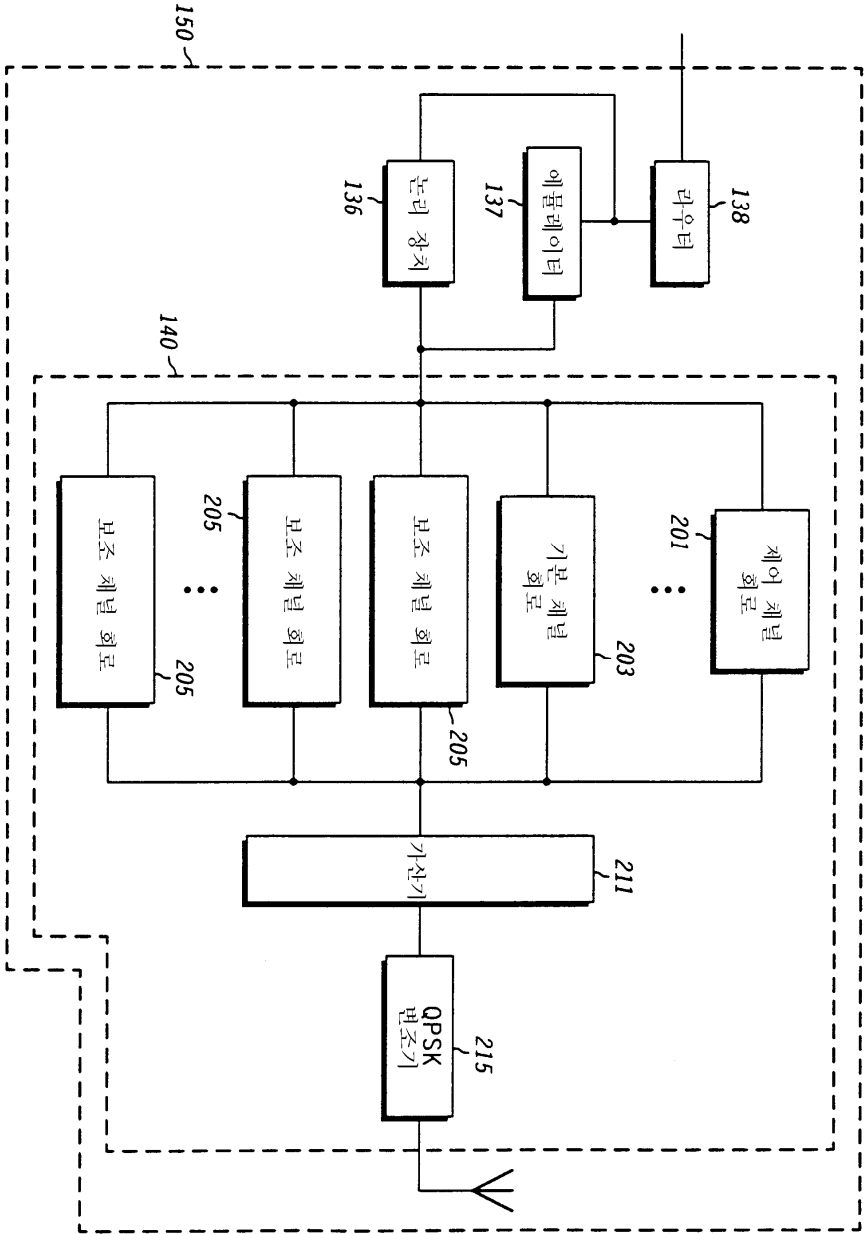
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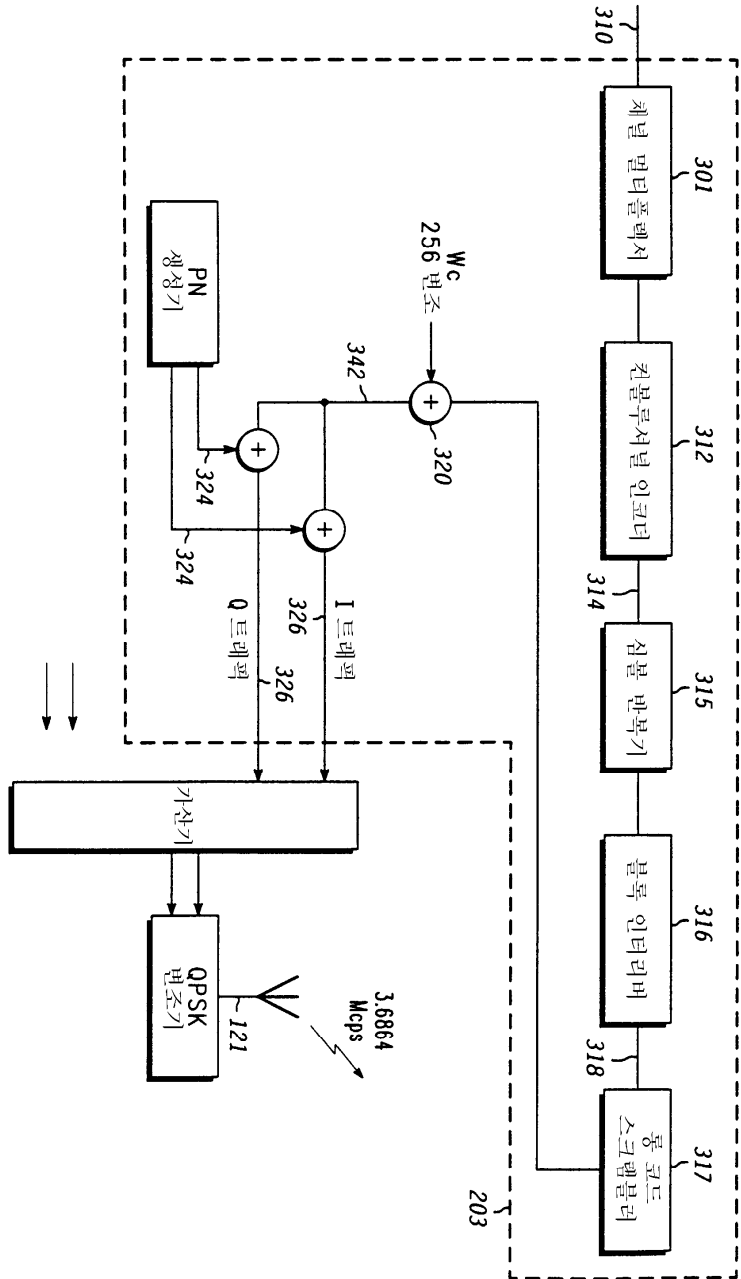
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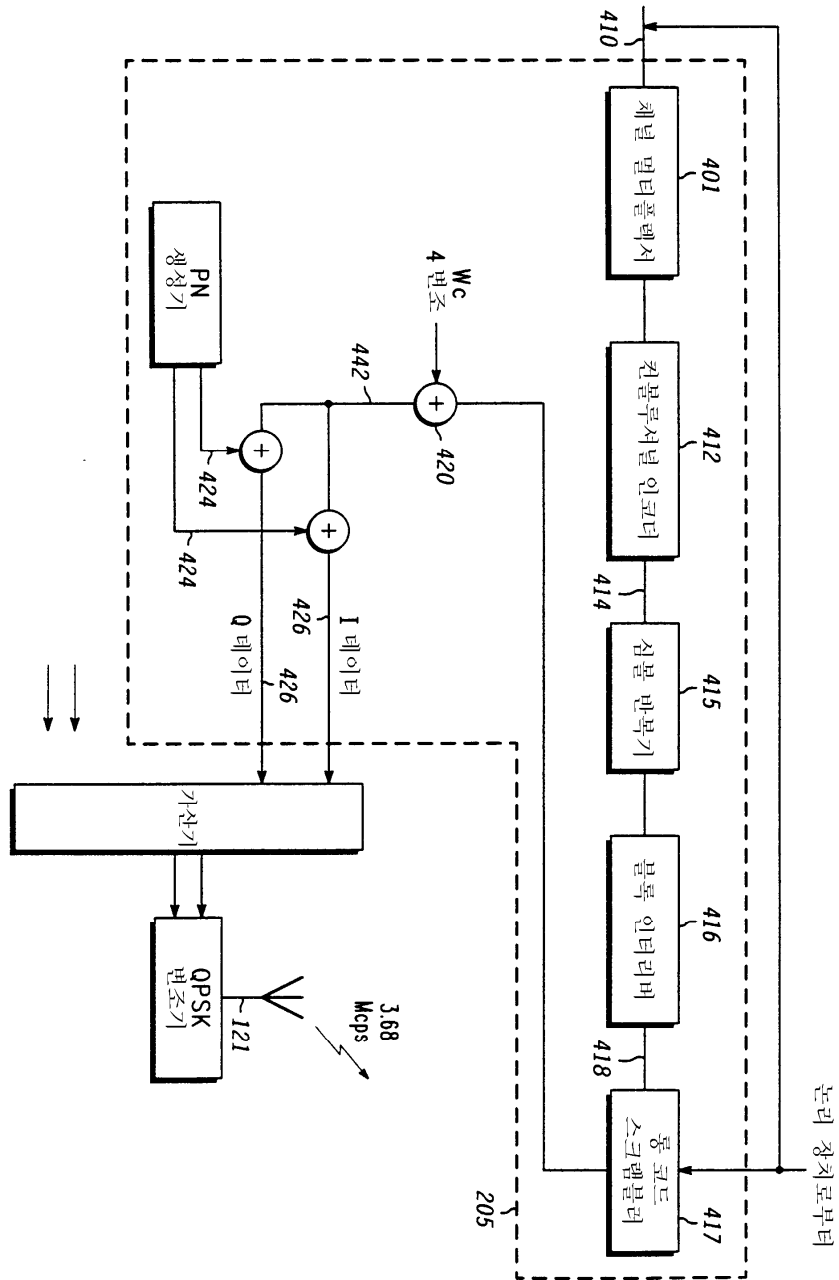
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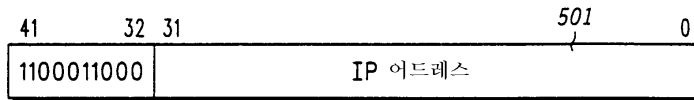




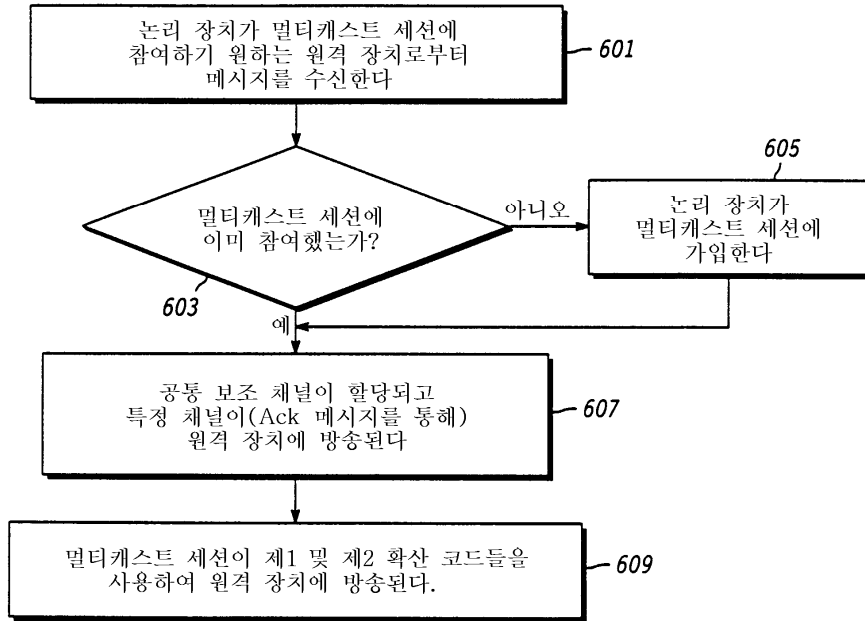
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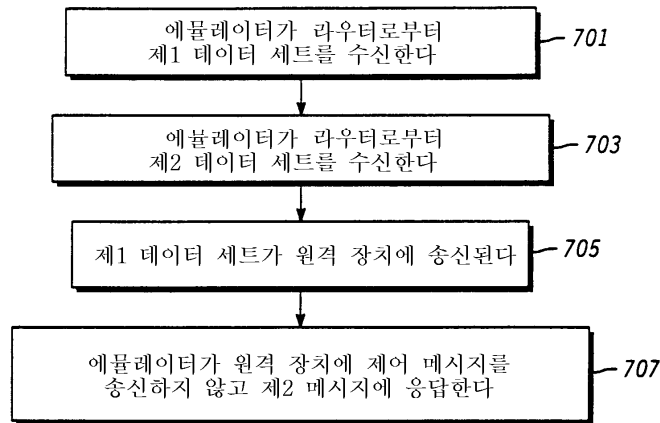
5



6



7



8

