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2003-0077110
2003 10 01

(21) 10-2002-0016034
(22) 2002 03 25

(71) 99

(72) 1 721-13,203

739 212 302

464 1 802

310 402

648 301

(74)

:

(54)

(CDMA) 가 (PN Phase) (PDA)
(RTD) 가 가 /
, CDMA , CDMA 가
, (S501); RTD 가 1
1 / 가 2
2 ,
가 , (S502), 가
, (S503,S505).

, , 가 ,

- 1 ,
- 2 1 ,
- 3 가 ,
- 4 ,
- 5 4 ,
- 6 4 ,
- 7 ,
- 8 7 ,
- 9 7 .

10,30,40,70 :

110,120,130,310,320,330,340,410,420,430,710,720,730 :

311,321,411,731 :

140,440,740 :

150,450,750 :

160,460,760 :

DA) (Code Division Multiple Access : CDMA) 가 (PN Phase) (P
 , (RTD) 가 /
 가

가 , CDMA
(PN Phase)

1
1 가 (PN Offset) (120,130) (10) (110)
가 (PN Phase) 1/16 (110) (110)
(140) (110) (150) 가
(120,130) (10) 1

$$\sqrt{(x_2-x_0)^2+(y_2-y_0)^2} - \sqrt{(x_1-x_0)^2+(y_1-y_0)^2} = m \times (813nS) \times c$$

$$\sqrt{(x_2-x_0)^2+(y_2-y_0)^2} - \sqrt{(x_3-x_0)^2+(y_3-y_0)^2} = (m-n) \times (813nS) \times c$$

$$\sqrt{(x_3-x_0)^2+(y_3-y_0)^2} - \sqrt{(x_1-x_0)^2+(y_1-y_0)^2} = n \times (813nS) \times c$$

1 1 , (x₀,y₀) (10) , (x₁,y₁) (110)
, (x₂,y₂) (120) , (x₃,y₃) (130) , m n
(120,130) 가 , C
(150) (10) (110.120,130) 가 (1)
60) (10) , 2 (110,120,130) (211)
(214) (d1) GPS (215)
, 2 (211) 212 (RF) , 213 (d2)
(IF)
가 , 3
3 가 , (30)가 (310) (311)
(312) 가 (30) (310) (311)
(31) (30) (312)
(30) (30)가 (320) (321) (321) (322) 가
(30) (31) (322) 가 (33)
(34)
3 , 330 340 , 313, 331 341 (311),
(330) (340) (30)

4

410, 420 430 , , 411 (410)

(40) , 412 (410)

(411) , 413 (411) (40) , 414 G

PS , 415 GPS (414) (410)

20) (40) , 431 (430) , 421 (4)

440 , 450 , 460 (40)

0) , 4 (40)가 (411) (411) (420,43

(411) (410) (40)

(RTD)

(410) RTD (440)

(450) (410) RTD (411) R

TD (460) 1 5

5 4 (450)

RTD 가 (S501), RTD 1 가 (S502),

(40)가 (410) 1 (411)

) (415) (412)

(x1,y1) (411) (x01,y01)

) (S503).

가 S502 RTD 1 (40)

(410) (415) (410) (x1,y

1) (460) (S504).

1 S503 (40) S504 (S505).

6 4 (450)

(40) 가 (PN Offset)

(413) 가 (410) (PN Phase error) 가 (450)

(411), (410) (440)

(410) (450) 가 (411) 가

(40) (460) 2 6

가 가 (S601), 2 가

(S602), (40)가 (410) 1

(411)) (415) (412)

(415) (410) (x1,y1)

(411) (x01,y01) (S603).

S602 , (40)가 (410) (410) (415)
 (460) (S604). (x1,y1)

1 , S603 S604 ,
 7 (40) (S605).

710, 720 730 , 710
 (710) (70)
 , 721 (70) , 711 (720) , 731
 (730) (70) , 732 (731) , 733 (731) , 736
) , 734 GPS , 735 GPS (734) , 760
 (730) , 740 , 750 , 760

31) , 7 (70)가 (710) (7
) (720) (710) (710) (70) (
 (RTD)

(710) RTD (740)
 (750) , (710) (750) RTD (730) (731)
 , RTD (760) 3

8 , (70)
 8 7 (750)

1) , RTD 가 (S801), RTD 3 가 (S802), (73
) (70)가 (730) (, 1) (73
 735) , (735) (732) (731)
 (x03,y03) (S803). (x3,y3)

가 , S802 RTD 3 , (70)
 (730) , (730)
 (735) (S804).

1 , S803 S804 , ,
 9 7 (70) (S805).

(70) (710) 가 (PN Offset)
 (711) 가 (PN Phase error) , 가 (750)
 (710) (740)
 (750) 가 (731) 가 ,
 (730) (760) 4 ,
 (70) , 9

1 ,

2

5.

1 ,

2

가

6.

Phase error)

(Round Trip Delay : RTD)
가 가 (PN)

/ 가
가

(PN

7.

Phase error)

(Round Trip Delay : RTD)
가 가 (PN)

/ 가
가

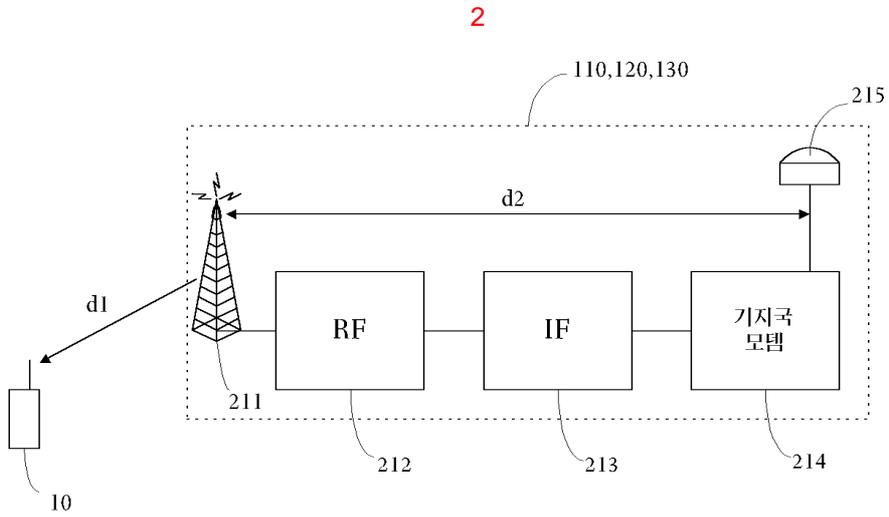
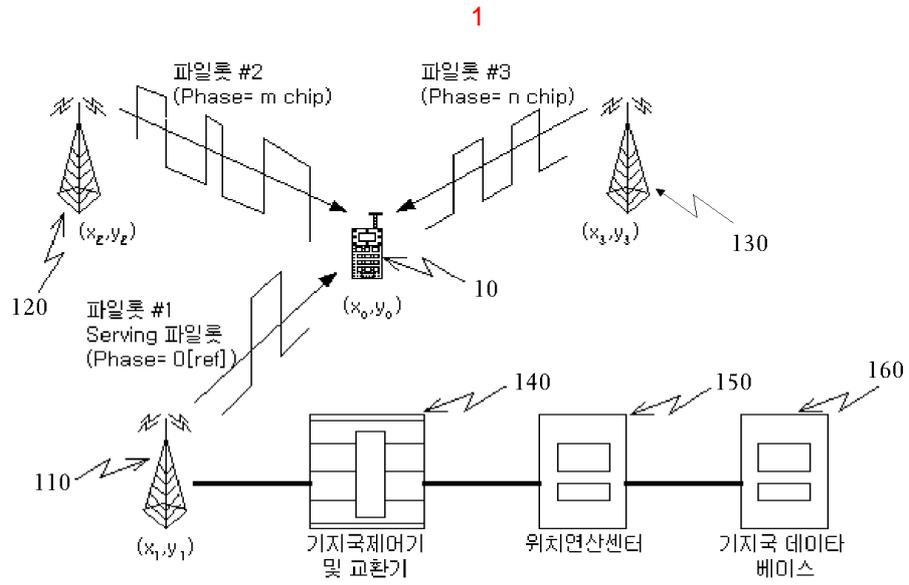
(PN) 가

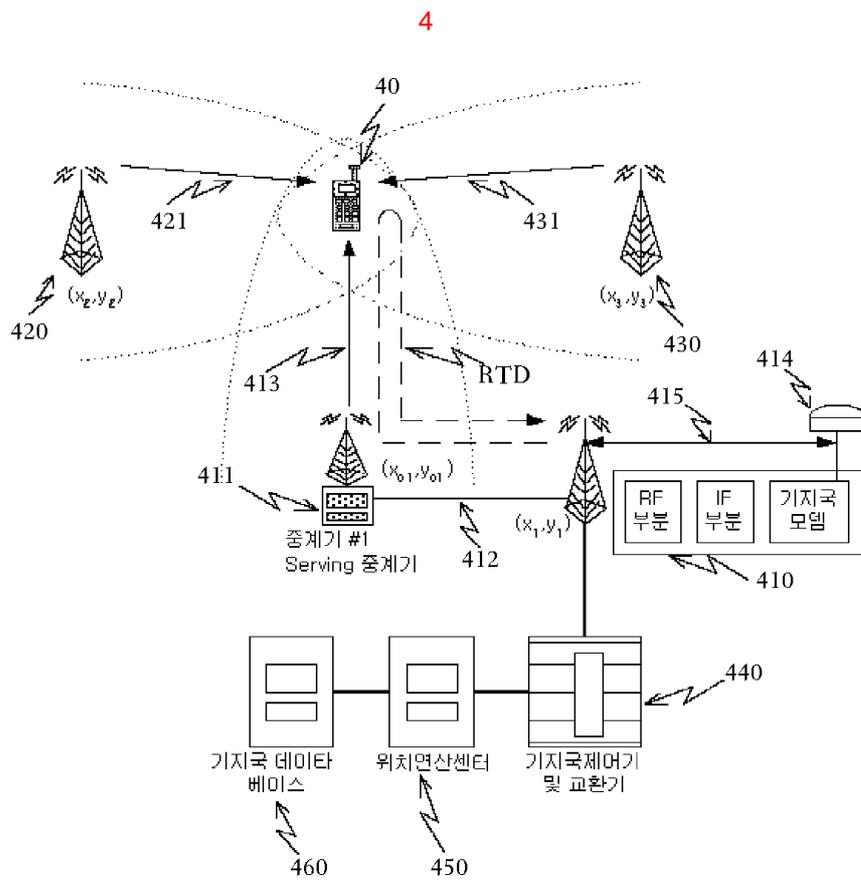
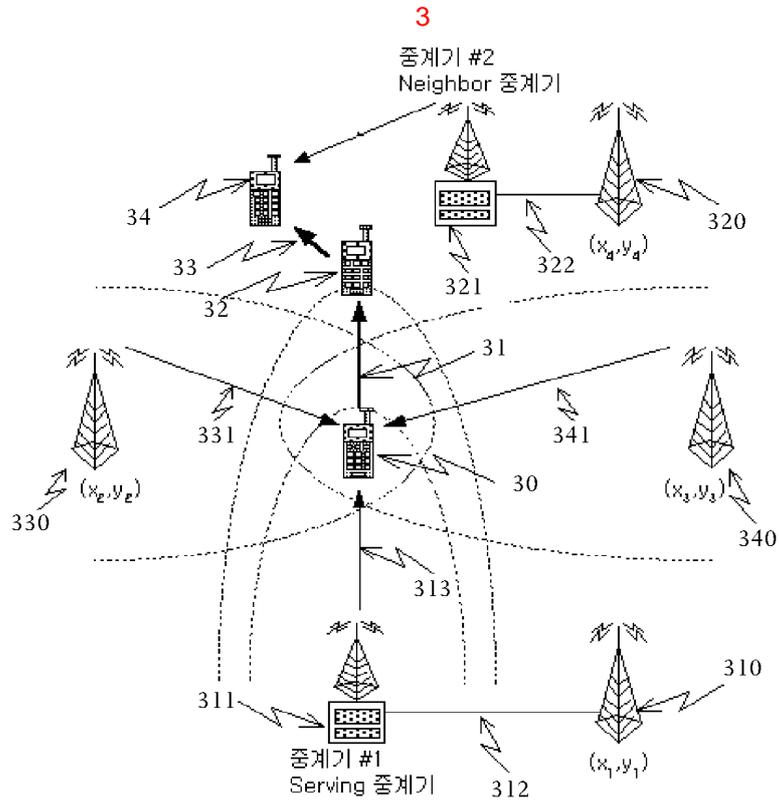
8.

6 7 ,

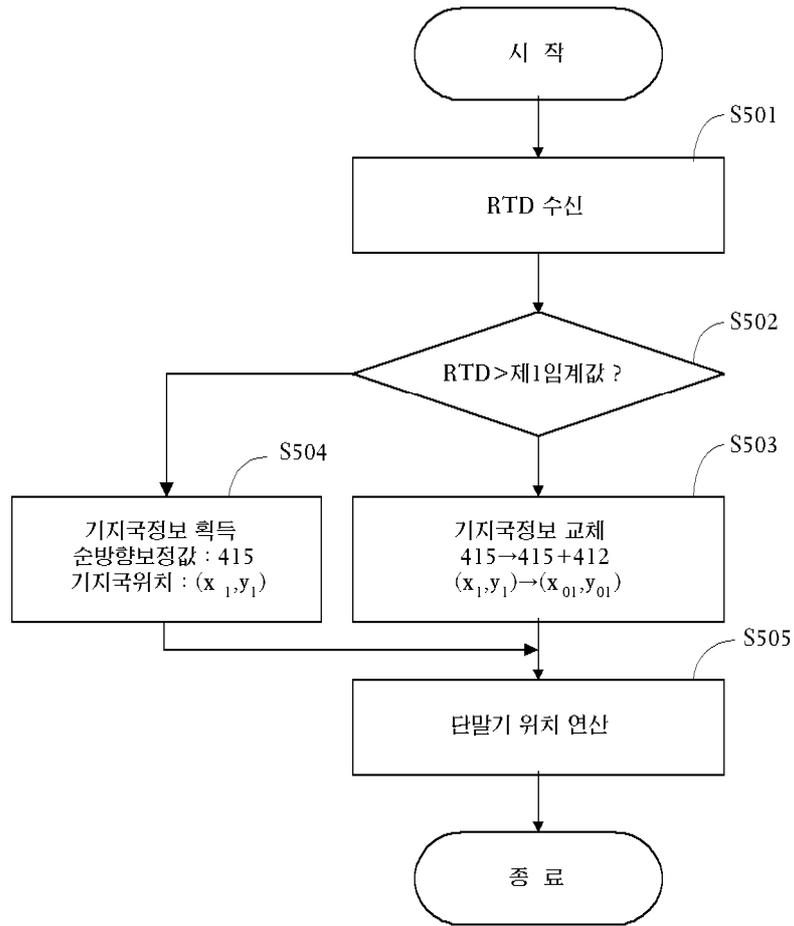
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1 , 6 7

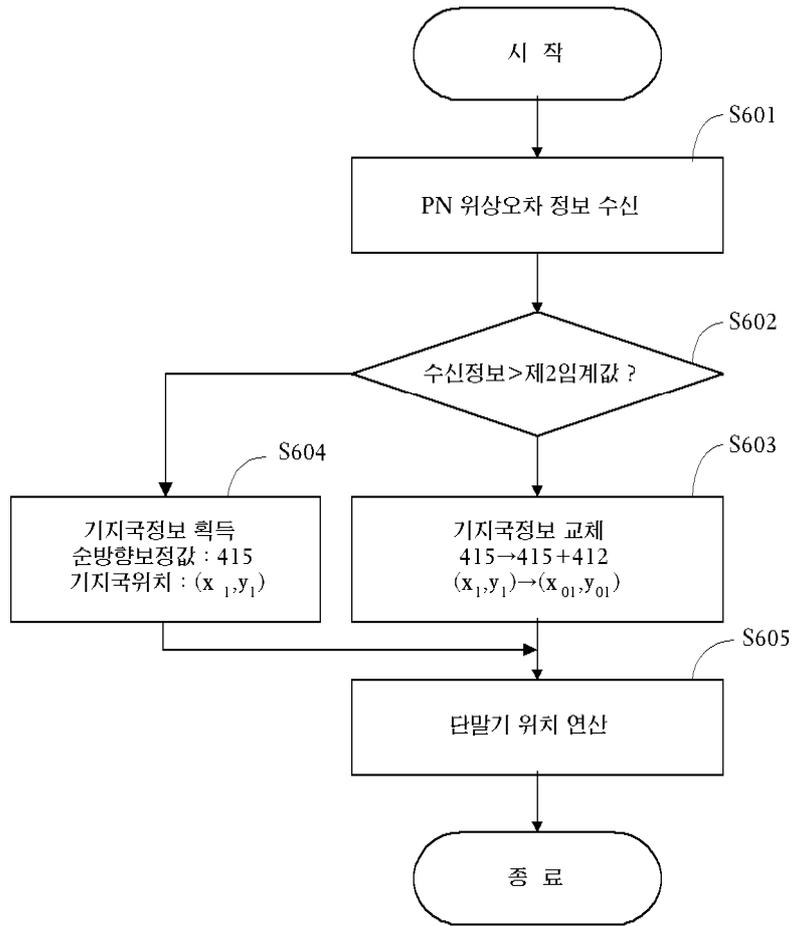




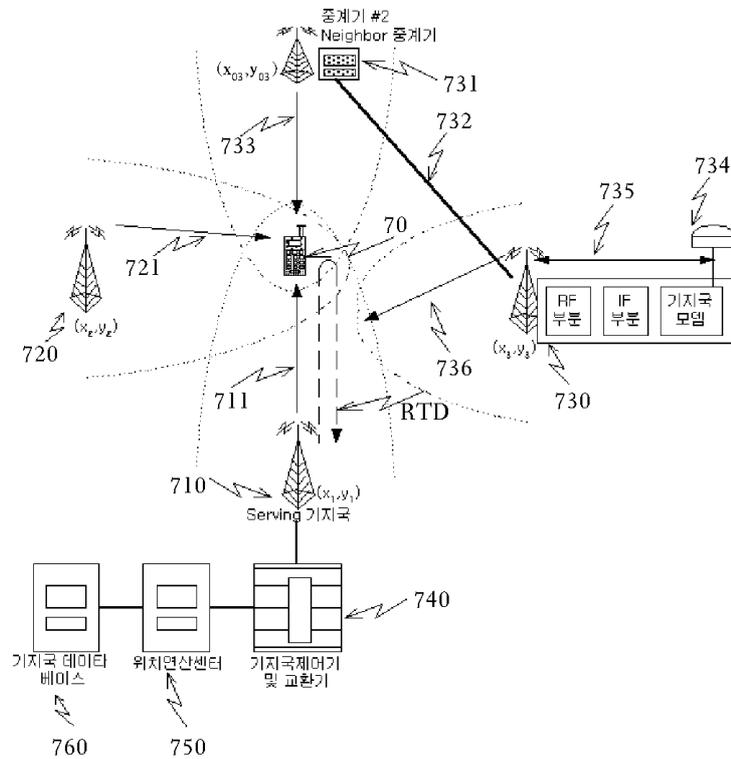
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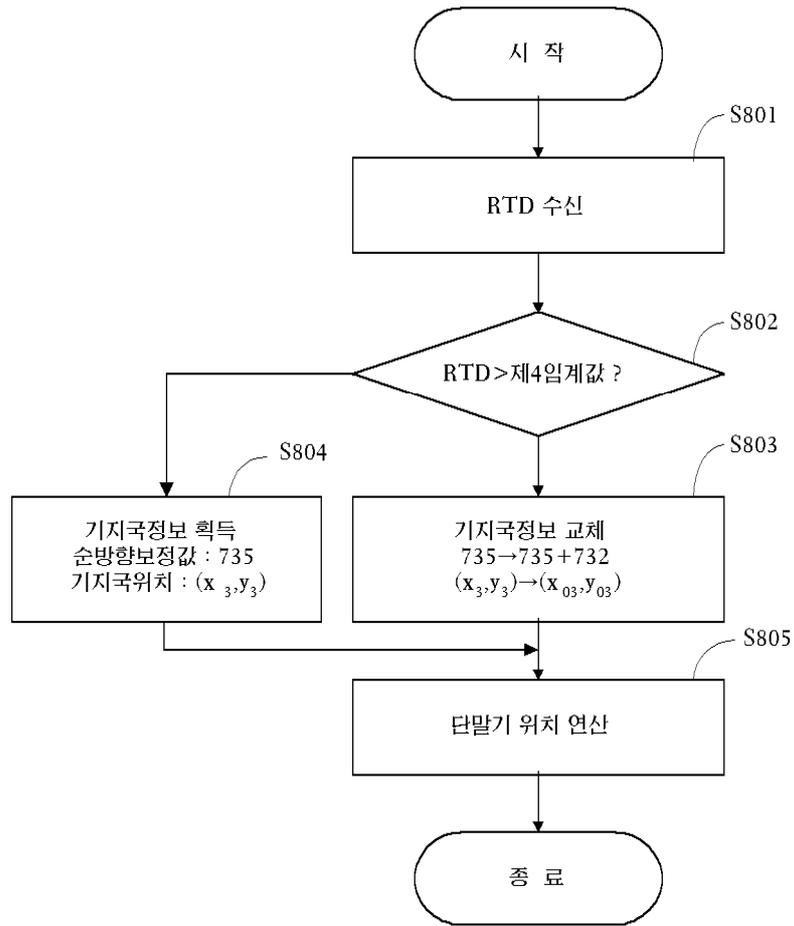
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8



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