



가

1

(inter - frequency method) / (PCS) RF  
 (inter - frequency handover)" RF  
 가 (candidate)  
 가

IEE 1993 12 13 - 15 7  
 , A. Baier , " 3 DS - CDMA  
 (MULTI - RATE DS - CDMA RADIO INTERFACE FOR THIRD - GENERATION CELLULAR SYSTEMS)"  
 255 260

PCS (ongoing) RF RF  
 가 , RF  
 가

(CDMA: Code Division Multiple Access) ,  
 (transient period) (soft handover) , RF 가  
 가 /

가 (dropped) 가

F2, F1, 2, (instantaneous symbol rate)  $R_{INFO}$   
 (squeezed) 가  
 (BER) 가, (PN: Pseudo Noise)  $R_{CHIP}$  가  
 $R_{INFO}$ ,  $R_{CHIP} / R_{INFO}$   
 가, 가 (background) 가  
 가  
 (slotted), (idle s  
 lot), (active)  
 가  
 / PCS  
 (functionality)  
 가 / PCS  
 가  
 /  
 가  
 (orientation) (polarization)  
 가  
 (intermediate)

RF

가

가

1

(local base station)

가

2a, 2b, 2c

1

3a, 3b, 3c

1

4

(A,B C)

2a, 2b, 2c

5

가 RF

1 2

6

5 RF

(DS - CDMA: Direct Sequence Code Division Multiple Access)

PCS ( , CDMA 2000)

가

PCS

, AMPS(An

alog Mobile Phone System:

), TDMA(Time Division Multiple Access:

), GSM(Global System for Mobile Communications:

), PDC(Pers

onal Communication Device:

) , UMTS(Universal Mobile Telephone System:

) 3 (3G)

1

PCS (10)

1

가가

(14)

1

PCS (10)

(12)

2

(15)

가 2 (13) . (14 15) 가 ,  
 가 , (12 13) , (14 15)  
 RF , RF /  
 . (12 13) , (14 15)가  
 , 가 .  
 (exploitation) (16) . (14,15)  
 , (14,15)  
 , 가 ,  
 , 가 (16) , (14 15) 가 .  
 , 가 가 .

(10) , (17a) - (17b)  
 - (17) . - (17) 가

(10) , (DS - CDMA) (20) 1  
 (22) (coverage) , 2 (32) ,  
 " 가 , , DS - CDMA (30) , " -  
 (L1) , (F1) , (20) (22) (10)  
 (L2) , (F2) , (30) (32) (10)  
 2) 가 , (L1) (L2) (F1 F  
 , - (course) 2a 2c . 2a  
 , , (14,15) , (14,15)  
 , (F1) (L1) (22) , 2  
 b , (22) , (15) (F2)  
 , (L2) (32) , (15) (32)  
 (14,15) , (14) (F2) , 3c ) , ,  
 (32) , (F2) (L2)

, (32) (recipient) (22)  
 , (10) F2 , (22) , (pilot) 가  
 - (14 15) , (22) , (lea  
 ding) (trailing) (active) ,

가 , , (15) , , ( )  
 14) , , 3a , , - (14 15)  
 , (14 15) , , (14 15)  
 가 , ,  
 (F1) (L1) (22) , 2b , ( )  
 15) (F2) , , (32)  
 , , (15) (F1) , 3c

(14 15) (F1) (L1)  
 (22)

1 가 (20,30)

(20)가 (22,24) (22,24)  
 (26) (20) (28)  
 (30) (32,34), (32,34) (36) (20)  
 (38) (40)  
 (PSTN: Public Switched Telephone Network)(42)

4 (10) (22 32) , BS1 (22)  
 , BS2 (32) (22) (14 15)  
 (DL\_Data\_1), 1  
 (UP\_Data\_1), 2 (DL\_Data\_2), 2 (UP\_Data  
 \_2) 가 (F2) (32) (22)  
 (14 15) (Handover\_Cmd)  
 (10) (infrastructure)  
 (20) (32) (20 30) (40) (impending)  
 (15) F2  
 (32) (RACH: Requests for Acknowledgement)  
 (Info) (18) (32) 가 (H  
 andover\_Com) (14) (22)  
 (DL\_Data\_3), 4 (UP\_Data\_3), 3  
 (UP\_Data\_4), 4 (DL\_Data\_4), 5  
 (UP\_Data\_5), 5 (DL\_Data\_5) 6 (UP\_Data\_6)  
 (DL\_Data\_7) (14)가 (F2) (15) 7  
 (DL\_Data\_8), 8 (UP\_Data\_7), 8  
 가 (DL\_Data\_9)

(10)가 5 (14) 1 RF ( (42)  
 RF (46) (50) , 2 (15) , 1 RF (42) 2  
 (50b), ROM(50c) (50) (DSP)(50a),  
 , DSP(50a) (50b) 가 (fir  
 mware) , (R) (analog - to - digital) (50e 50f) , RF (42 46)  
 (50) , DSP(50a) (PN: Pseudo Noise) 가  
 P(50a) (despreading) , DS  
 (T) ,

- , (50g 50h) 1 RF (42) 2 RF (46) 가, (50) 1 R  
 F (42) (C) 2 RF (46) (50i 50j)

(10) (50) , (numeric) (51) , (53) , LCD  
 (52) , (54) (55) (54) - -  
 (50k) (50) , (50) - - (50l)  
 (55)

RF , 가 1 2 RF (42,46) RF 6  
 (60) 가 (12 13) (diplexer) (60) ,  
 (64) (PA: Power Amplifier) (62) RF (LNA: Low Noise Amplifier)  
 (66) IF ( ) (50)  
 (68) RF (64)  
 F (67) IF ( ) (64)  
 (R) (50) (68) RF R

- 가
- :
- a) " " ;
  - b) " a" " an" ;
  - c) ;
  - d) " " , 가

가

/ (PCS) -

(57)

1.

PCS (20) ,  
 (10) (22,32) , 가  
 (14,15) ,

2.

1 ,  
 , (orientation) (polarization) (14,15)  
 ,  
 (14,15)가 (14,15) (baseband) (exploit) ,  
 (14,15) (14,15)  
 (diversity) (16)  
 가 , .

3.

1 2 , - (inter - frequency method) (steer)  
 (17) 가 ,  
 , (commencement) , (14,15)  
 (22) , (stage) , (15)  
 (14) (2)  
 2) , .

4.

3 , - ,  
 (15)가 , RF (L2)  
 (establish) , (14)가 ,

5.

3 , - ,  
 (15)가 (17b) , , (15)가

6.

PCS (20) (10) (stored) ,  
 (22,32) 가  
 (14,15) 가 ,  
 (14,15) - , , (20) (22) ,  
 (14) (15) (22)

7.

6 , - , (15)가 RF (L2)  
, (14)가 , .

8.

6 (15)가 (17b) , , (15)가  
, .

9.

6 8 (10) (14,15)  
(12,13) ,  
가 (12,13) , (16) , (14,15)  
가 , .

10.

PCS (20) (10) ,  
(10) (22,32) 가  
(14,15) ,  
- , , (14,15)  
, (15) (22) , (14)  
(22) , .

11.

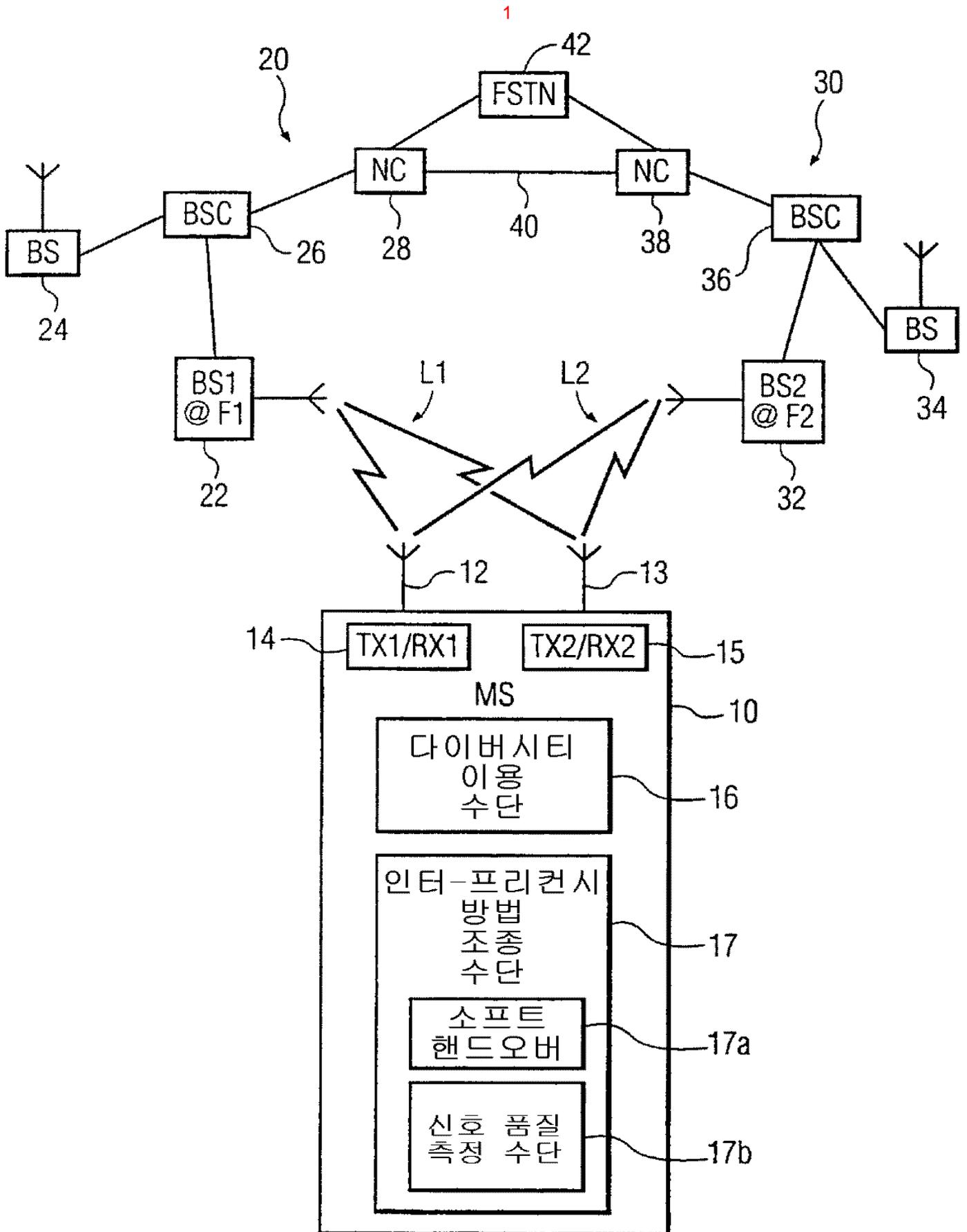
10 , - , (15)가 RF (L2)  
, (14) , .

12.

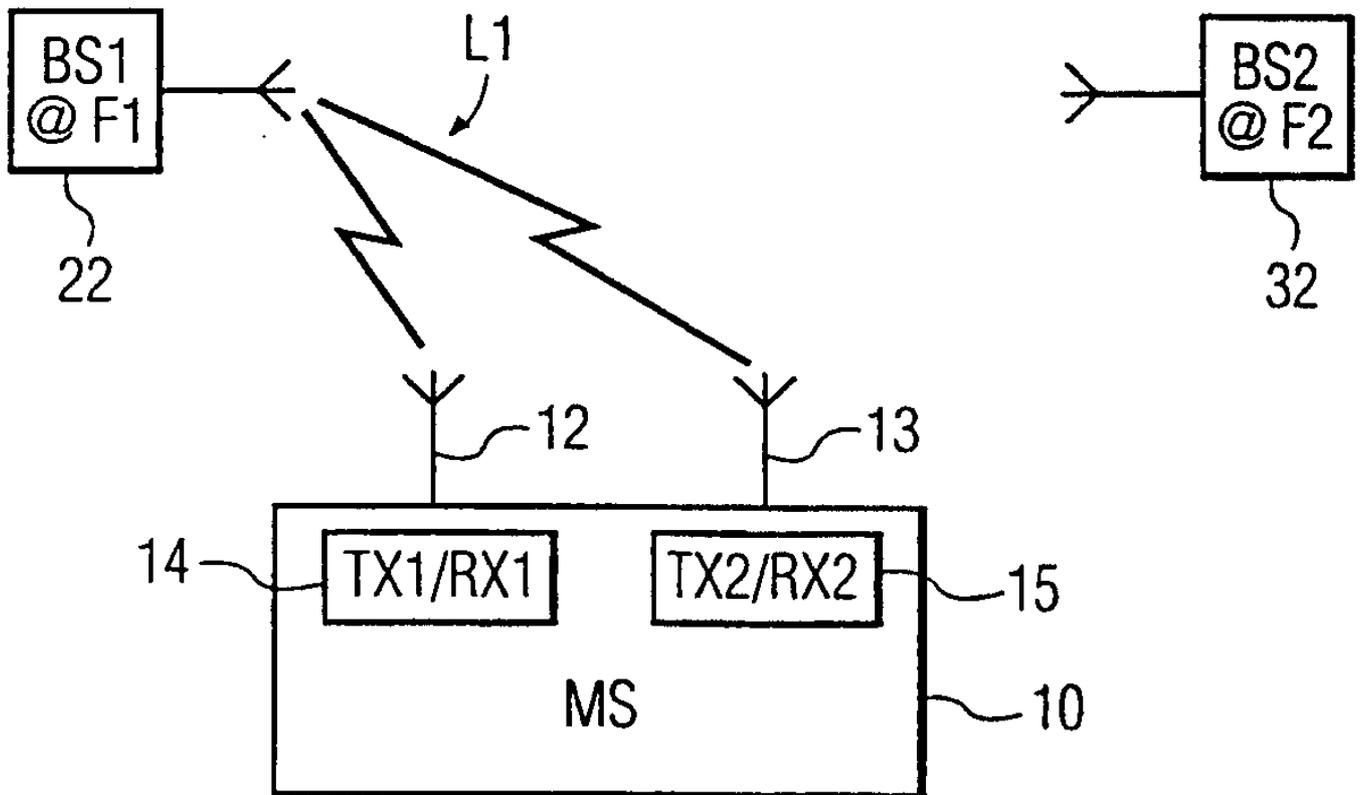
10 (15)가 (17b) , , (15)  
, .

13.

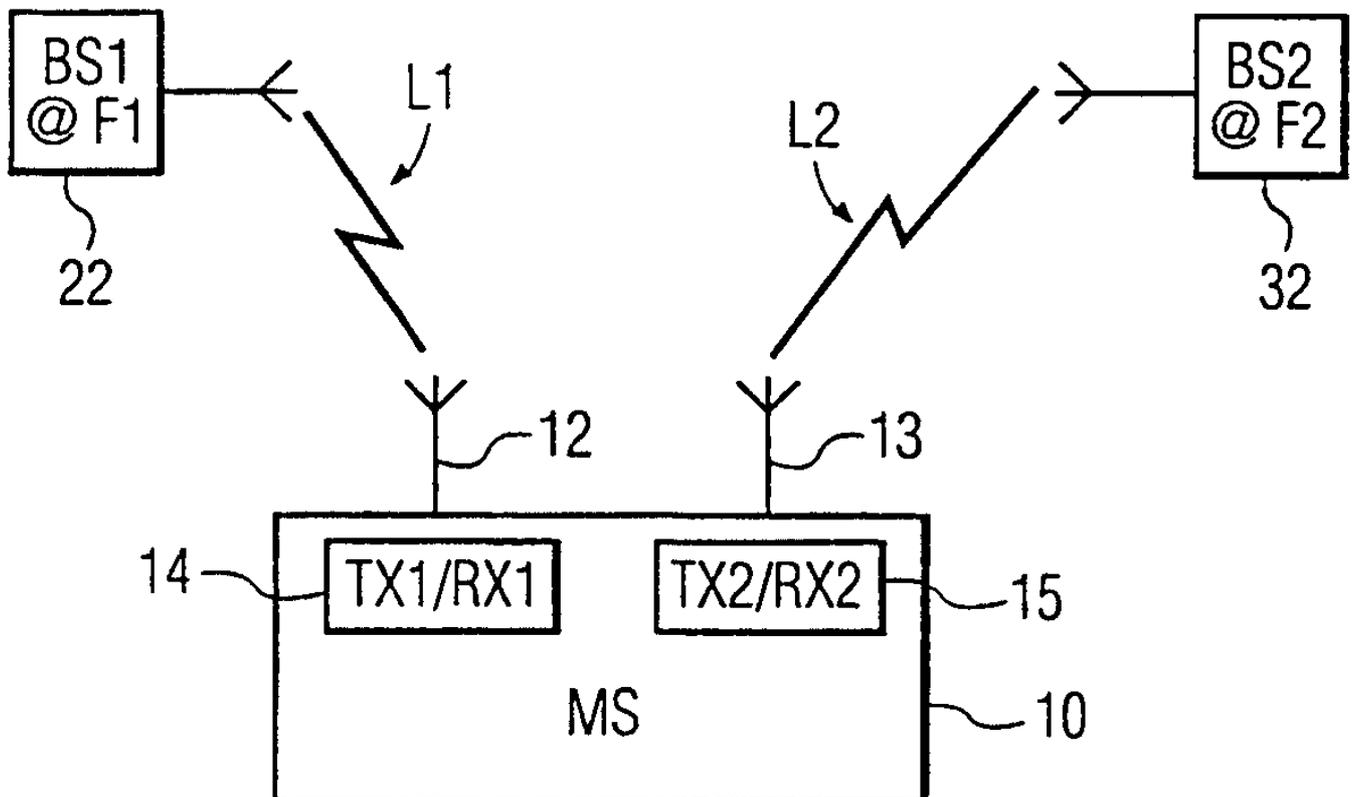




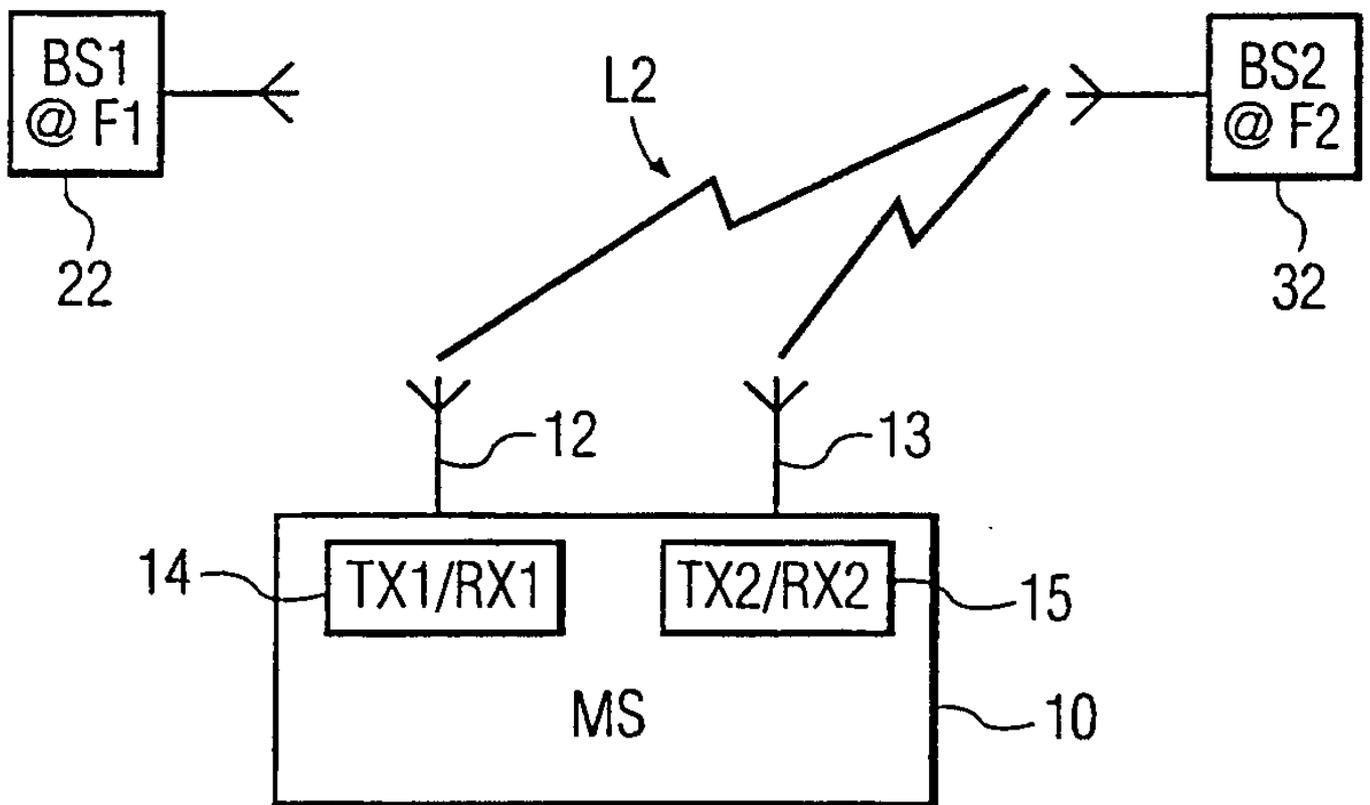
2a



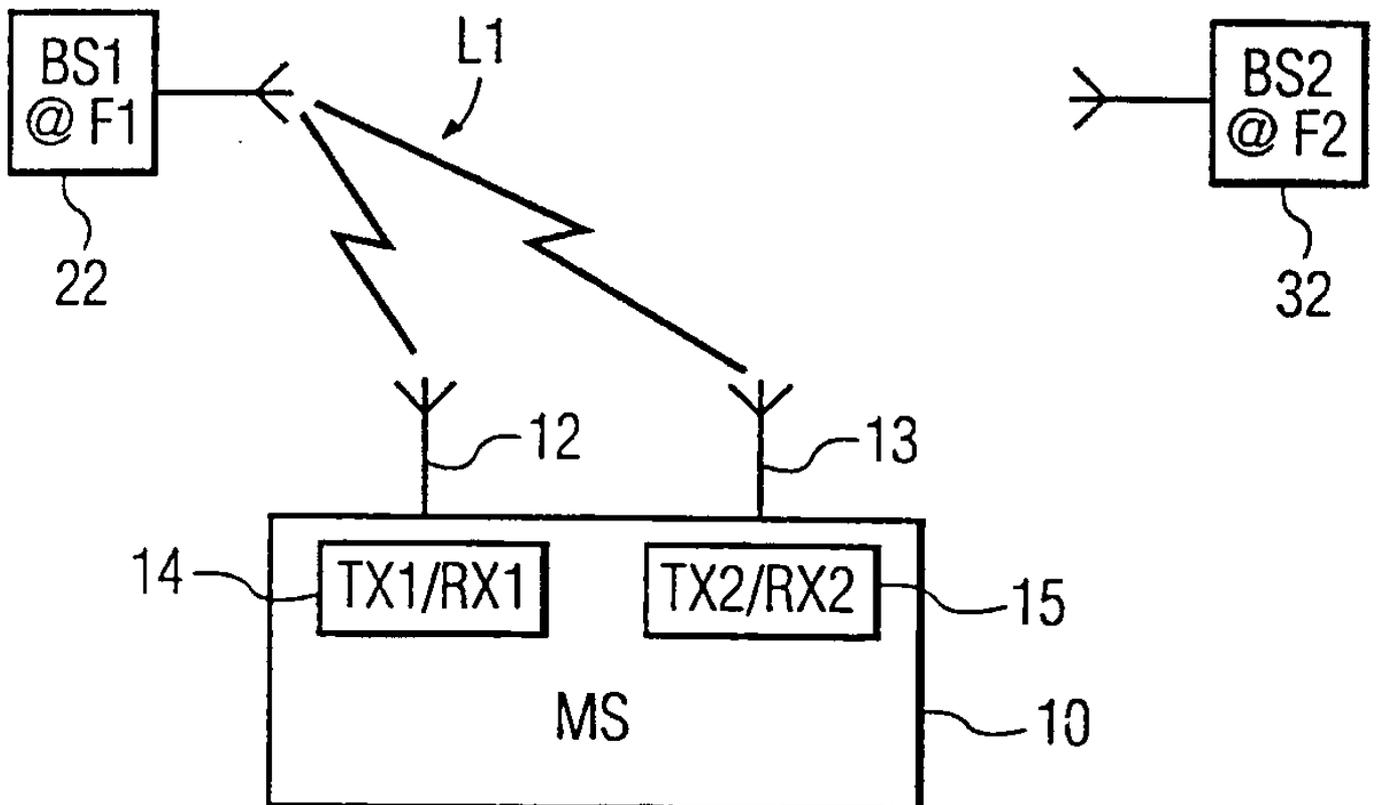
2b



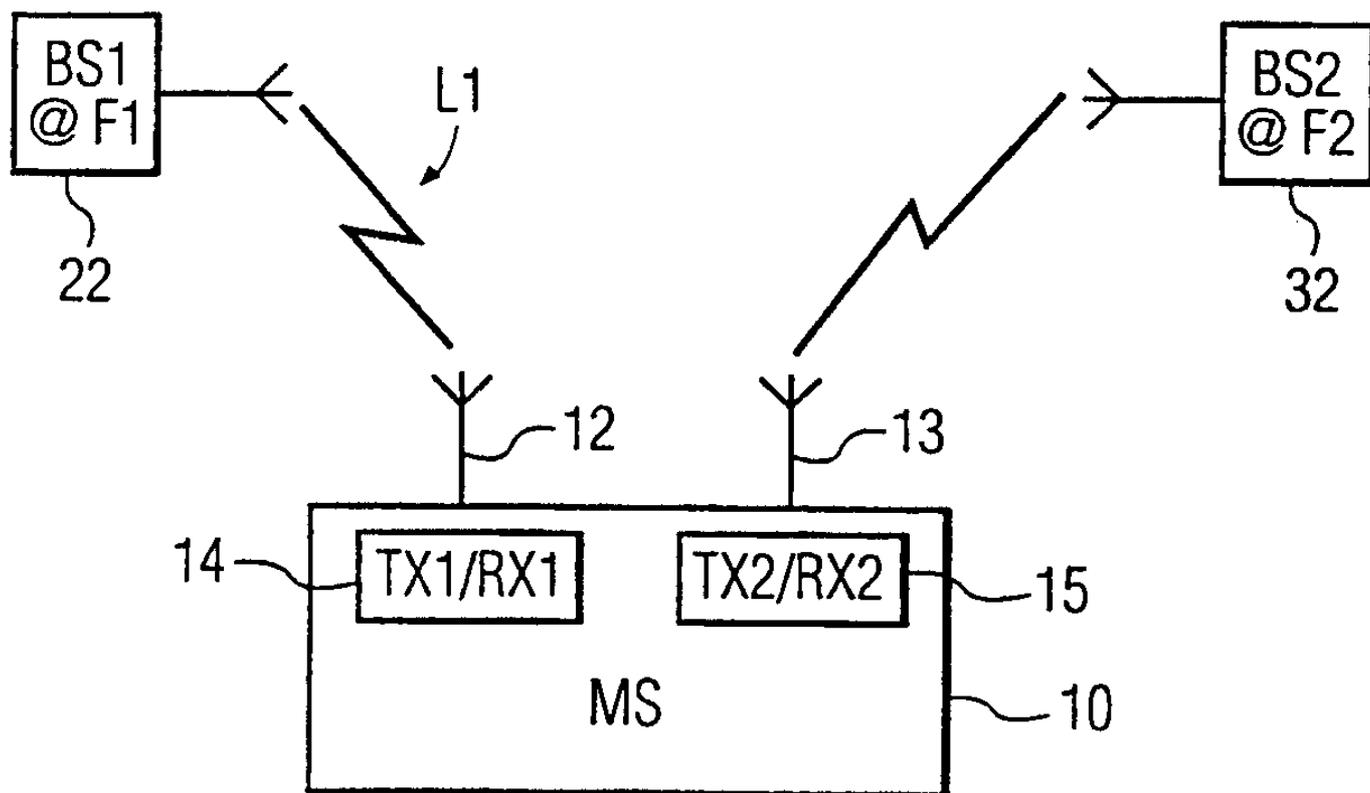
2c



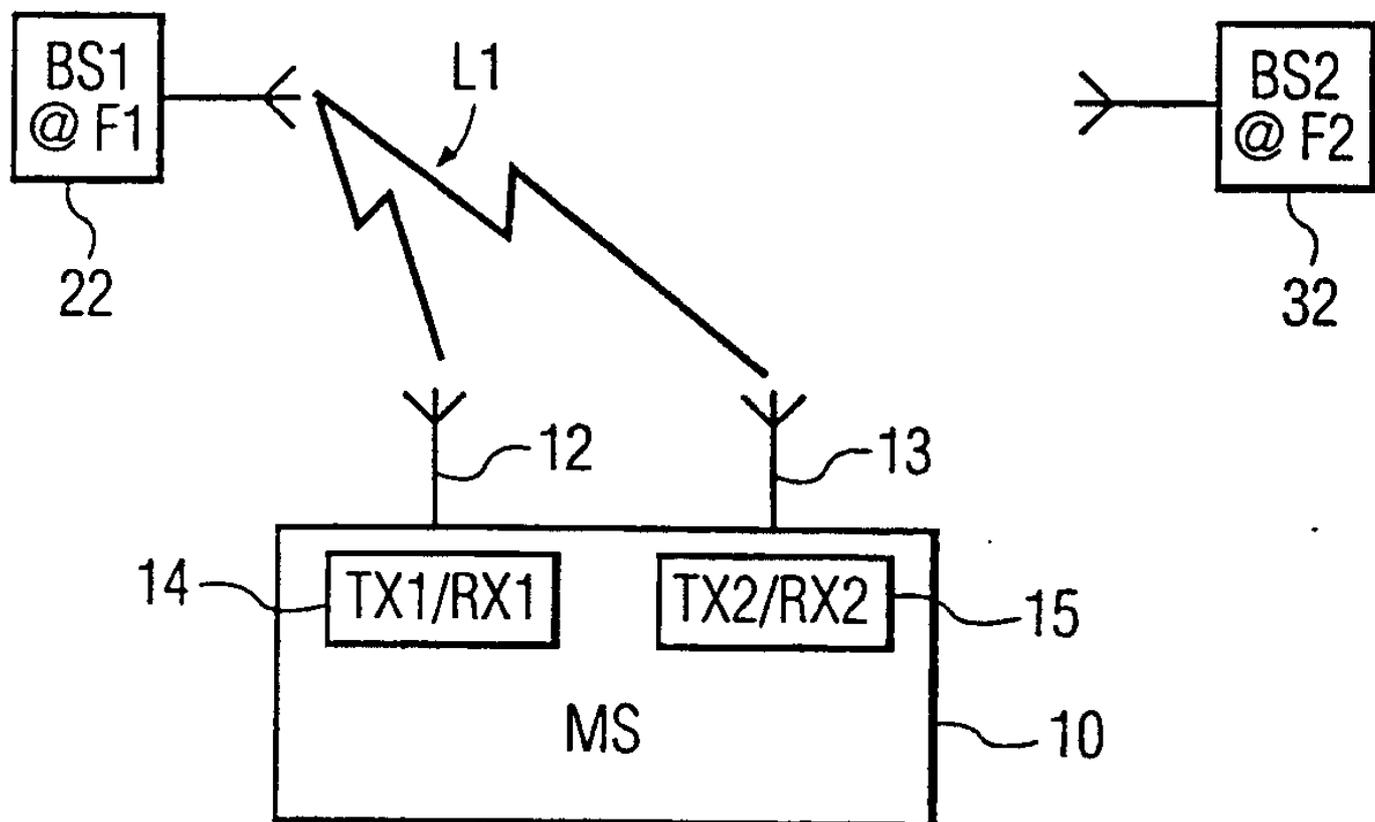
3a



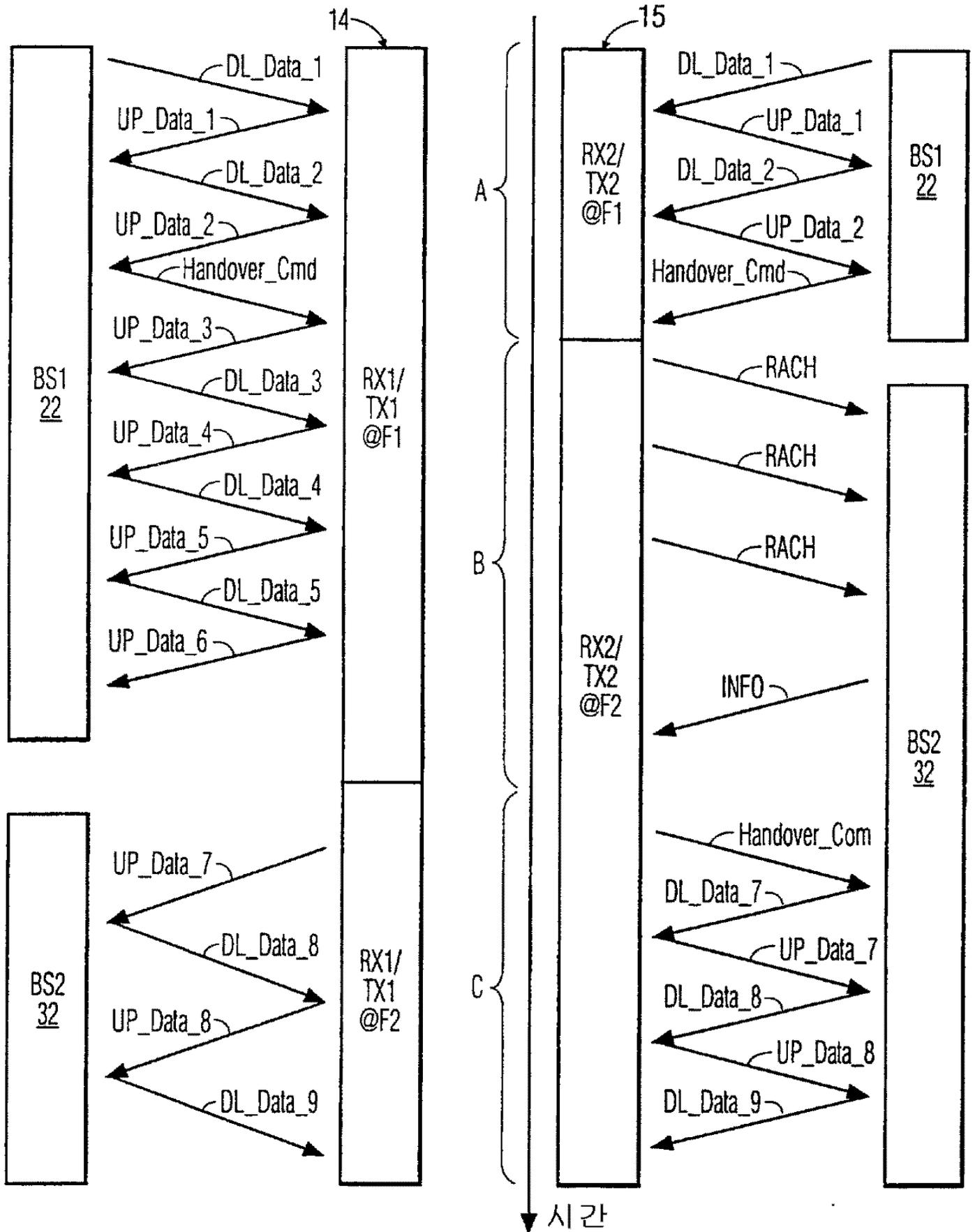
3b



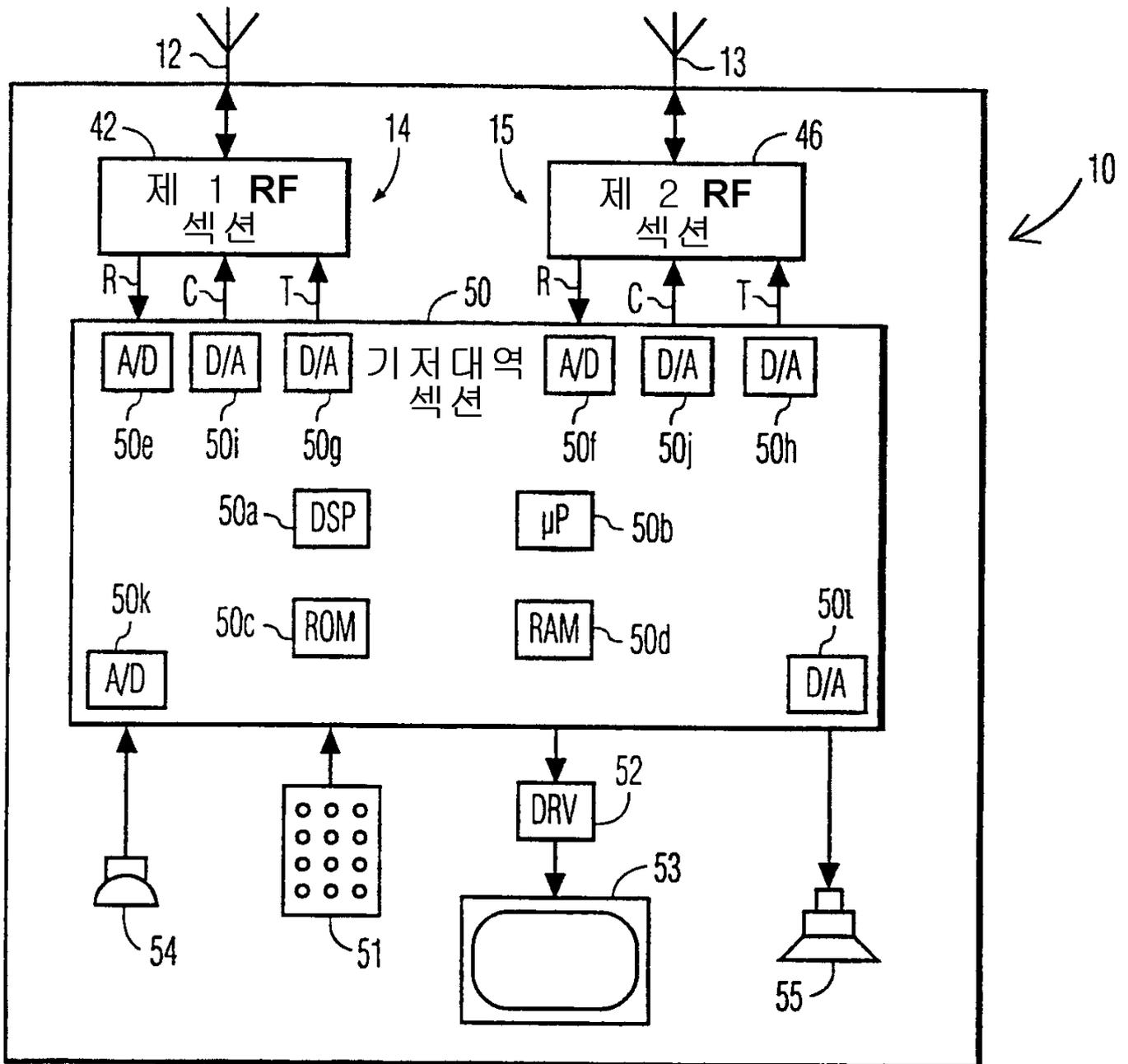
3c



4



5



6

