

(19)
(12)

(KR)
(B1)

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H04B 1/69

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(24)

2001 11 26
10 - 0315322
2001 11 08

(21) 10 - 1999 - 0055664
(22) 1999 12 08

(65) 2000 - 0057044
(43) 2000 09 15

(30) 1998 - 350162 1998 12 09 (JP)

(73) 가 가
가

5 7 1

(72) 1 4 - 28 .

5 7 1 가 가

(74)

:

(54)

MT가

BS

MT

MT

MT

3

1 1

2 MT, BS BSC()

3 BS MT

4

5

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7 ATM

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9

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13

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10 : MCX

20 : BSC

30, 35 : BS

40, 41, 42 : MT

50, 60, 65 :

70, 80, 90 :

CDMA FDMA TDMA , CDMA , , CDMA
 256 65536 가 8 16 가 ,
 가 가 가 . CDMA 가 가
 가 가 가 . CDMA
 1 , MT
 BS 가 (') 가 ,
 가 MT MT MT BS가
 MT MT MT가
 BS , BS MT BS MT
 1 (MCX; Mobile Communication eXchange)(10) 2 (50)
 (PSTN; Public Switched Telephone Network) (BSC; Base Station Controller)
 (20) . BSC(20) (BSE; Base Station Equipment) . BSC(20)
 (60, 65) BS(30, 35) (50, 60, 65) ' ' . BS(30) MT(40,
 41, 42)가 (70, 80, 90) MT(40, 41, 42)
 (70, 80, 90) . CDMA

가 (MT) , 가 MT (' ' , BS)
 , BS(30) #0 - #n , BS(30)가
 MT (40) 가 .

#0 - #n (,) #0 - #n , #0 - #n BS(30)
 #0 - #n , #n MT(40)가 , MT(40) MT(40)
 #n 가 MT , MT(40) MT(40)
 AD#0 .

, #0 - #n #0 - #n #n M
 #0 - #n - 1 . AD#0 - AD#n MT AD#
 T , MT(40) MT(41, 42) , AD#
 0 - AD#n #0 - #n BS(30) .

, MT(40) AD#0 #n #nAD#0가 (70) B
 S(30)가 MT MT (41, 42) BS
 MT , BS MT

, BS MT

, MT 3
 #n , (ADD - IDs) TS
 (Time - Stamp) 3 . ADD - ID AD#0 - AD#2 ,
 #n (70 - 90) . TS ,
 () , .

, 가 , .

0) BS(30) , BS(30) BS(2
 가 , ATM , 가 가

, MT(40) BS(30)
 (demultiplex) , MT(40) #n M
 T(40)가 . MT(40) . MT(40)
 , MT(40) , MT(40) MT
 (71, 72) (70)

41, 42) MT(40) MT (41, 42) 4 - 6 , MT (40, MT(40)
 MT (41, 42) , MT(40) MT(40) MT (41, 42)
 가 .

MT(40) MT(40) (AD#0) , MT(40) MT(40)
 MT(40) MT (41, 42) , 4
 MT(41, 42) GPS MT

5 , MT(40) MT , M
 T (40, 41, 42) MT MT
 MT(40)가 MT(42) MT(42) MT(42)
 , MT(42) MT(41) 가 , MT(40)
 MT(42) , MT(40) MT(42)가 MT(41)
 MT(42) TDM(Time - Division Multiplexing)
 , MT(40)

6 ,
 가
 , 가 ATM
 , 가
 , ATM

7 , ATM 53 , 5 48 7 . UNI
 ATM , UNI
 GFC(Generic Flow Control), VPI(Virtual Path Identifier), VCI(Virtual Channel Identifier), PT(Payload Type), CLP(Congestion Loss Priority), HEC(Header Error Control)

GFC 4 , ATM

ATN , GFC , VPI 8 , VCI

VCI 16 , ATN , VCI

PT 3 , 1
 가 , 2 , 3 AAL
 . CLP 1 . HEC 8
 (checksum)

ATM (leaf node)
 가 ATM , 가
 BS , BSC BSC ATM . MT , ATM

8 , BSC(20) (200), (201), (202a - 202n), CLAD (203a - 203n),
 ATM (204), ATM (205a - 205n), GPS (206), GPS (207), (208),
 (209) . (202a - 202n), CLAD (203a - 203n) ATM (205a - 205
 n) BS

(200) (50) MCX(10) . (201) (200)

(202a - 202n) / (202a - 202n) 가
 , CLAD (203a - 203n) BS ATM , BS A
 TM , CLAD (202a - 202n) (202a - 202n) ATM

ATM (204) CLAD (202a - 202n) ATM (205a - 205n)
 . (208) GPS (207) GPS (206) GPS (202a -
 202n) (209) GPS . (209) BSC(20)

9 , BS(30) ATM (300), / (310), (320a - 320
 n), / (330), (340), GPS (350), GPS (360), (370), (380)

ATM (300) (60) BSC(20) , BSC(20) ATM ATM
 ATM ATM / (310)
 BSC(20) ATM / (310)
 (320a - 320n) ATM . ATM BSC(
 20)

GPS (360) GPS (350) GPS (370)
 . , (370) GPS (320a - 320n)

(320a - 320n) (321), (322), / (323)
 (321) (322) / (323) (380) (370) G
 PS

, / (323) ATM
, / (323) ATM / (330) MT
/ (330) ATM MT / (330) MT
10 , MT(40) / (400), (401), CLAD (402), ((403), (404), (405, resolver), (406), (407), (408), (409), GPS (410), GPS (411), (412), (413) .

(409) (408) (406)
ATM (406) #n MT(40)
MT(40) ATM (403) ATM CLAD (402) ATM BS(30)
/ (400) (401)

(401) / (400) M
T(40) CLAD (402) ATM A
TM (405)

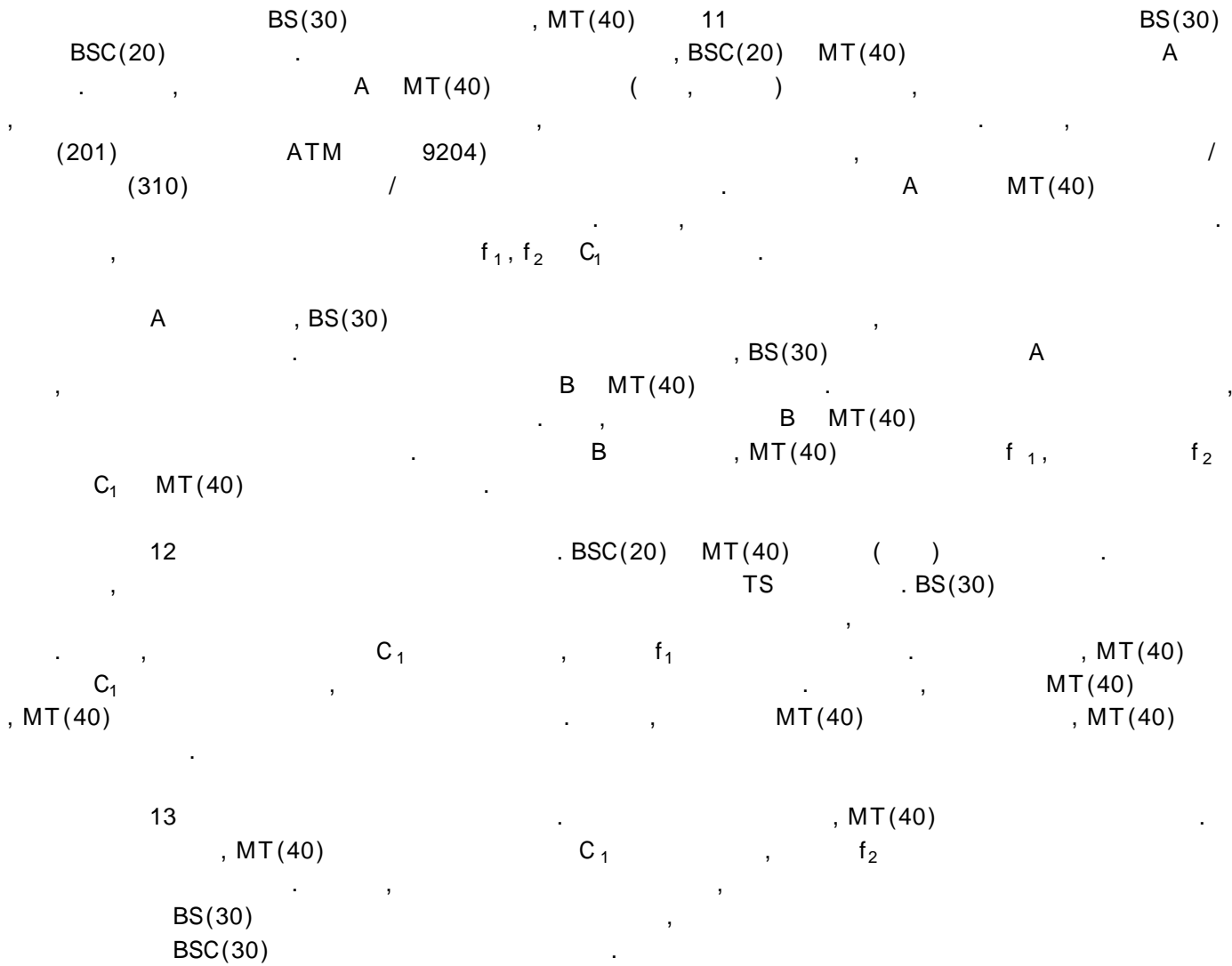
(406) 2
(406) MT(41, 42) MT(41, 42) ATM
(404)

(404) MT(40) MT (41, 42)
ATM (404) MT(41, 42) ATM
ATM (404) MT (41, 42)

(405) MT(40) ATM 6
(405) ATM ATM

가 (407) MT(40) #n ATM
(407) (408) (409) ATM
GPS (411) GPS (410) GPS (412)
(402), (412) GPS (404), (405) (401), CLAD
(403), (413)

(413) MT(40) (404) GPS MT (41,
42)



CDMA

0) MT(40) GPS, BSC(20), BS(30)가
 BS MT가 1 BSC BS가
 , BS MT가 1 BS BSC 가 CLAD

(57)

1.

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2.

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3.

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4.

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가

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ATM

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7.

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가

8.

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가

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가

9.

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10.

9

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11.

10

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(idle times)

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12.

11 ,

13.

12 , GPS

14.

12 , 가 (guard)

15.

11 , 가

16.

11 ,

17.

11 , ATM

18.

ATM

ATM 1 ;

ATM

ATM 2 ;

ATM

3 ;

4

19.

18 ,

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ATM

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ATM

ATM

;

가

ATM

CLAD

20.

19

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CLAD

ATM

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;

ATM

(resolver);

ATM

ATM

21.

20

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ATM

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ATM

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22.

21

,

GPS

GPS

,

GPS

가

23.

22

,

GPS
GPS

GPS

,

GPS

GPS

,

GPS

24.

20 , ATM ATM 가
ATM .

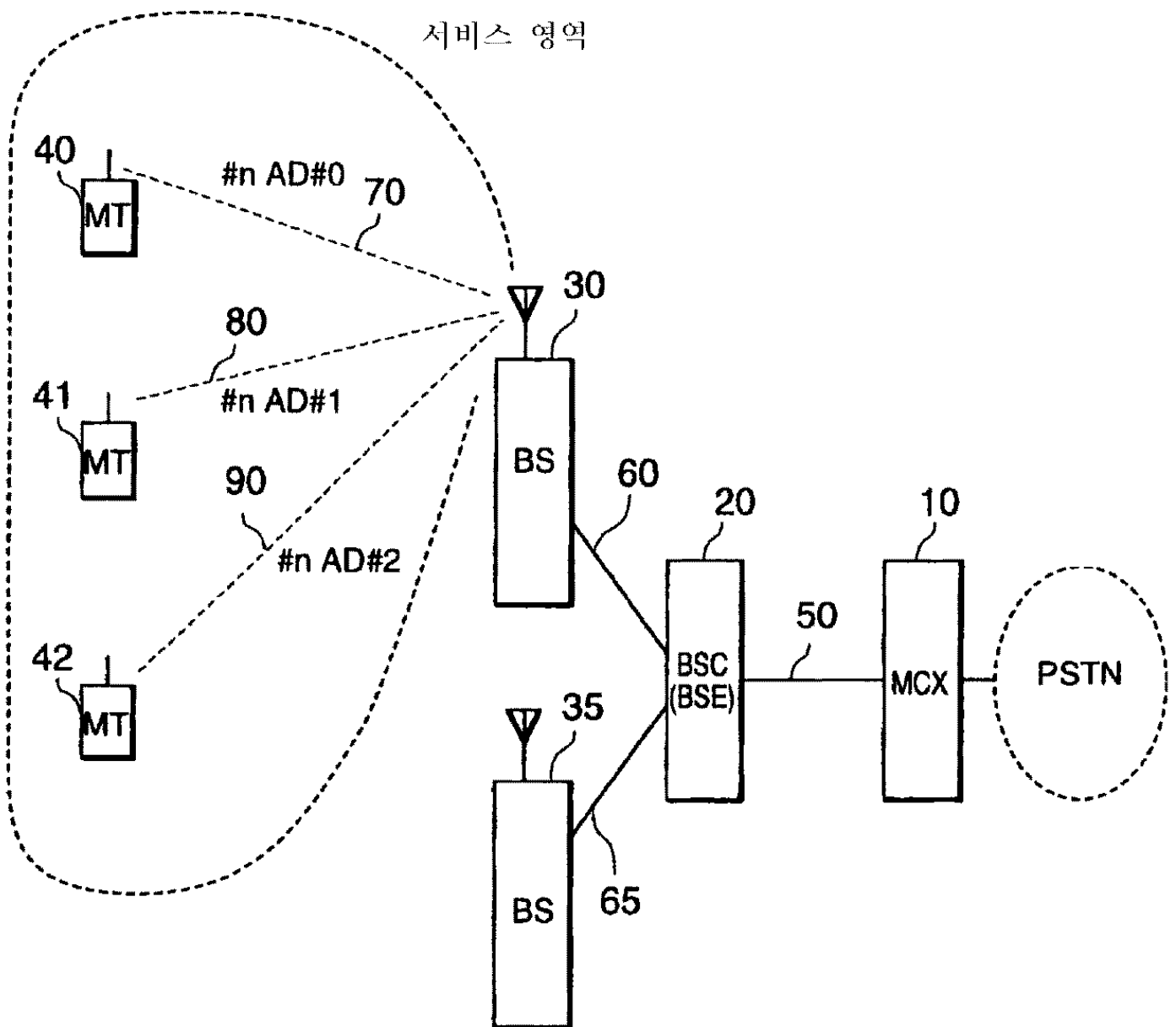
25.

20 ,
4 ATM
3 ATM
2 ATM
ATM
1 ATM ATM

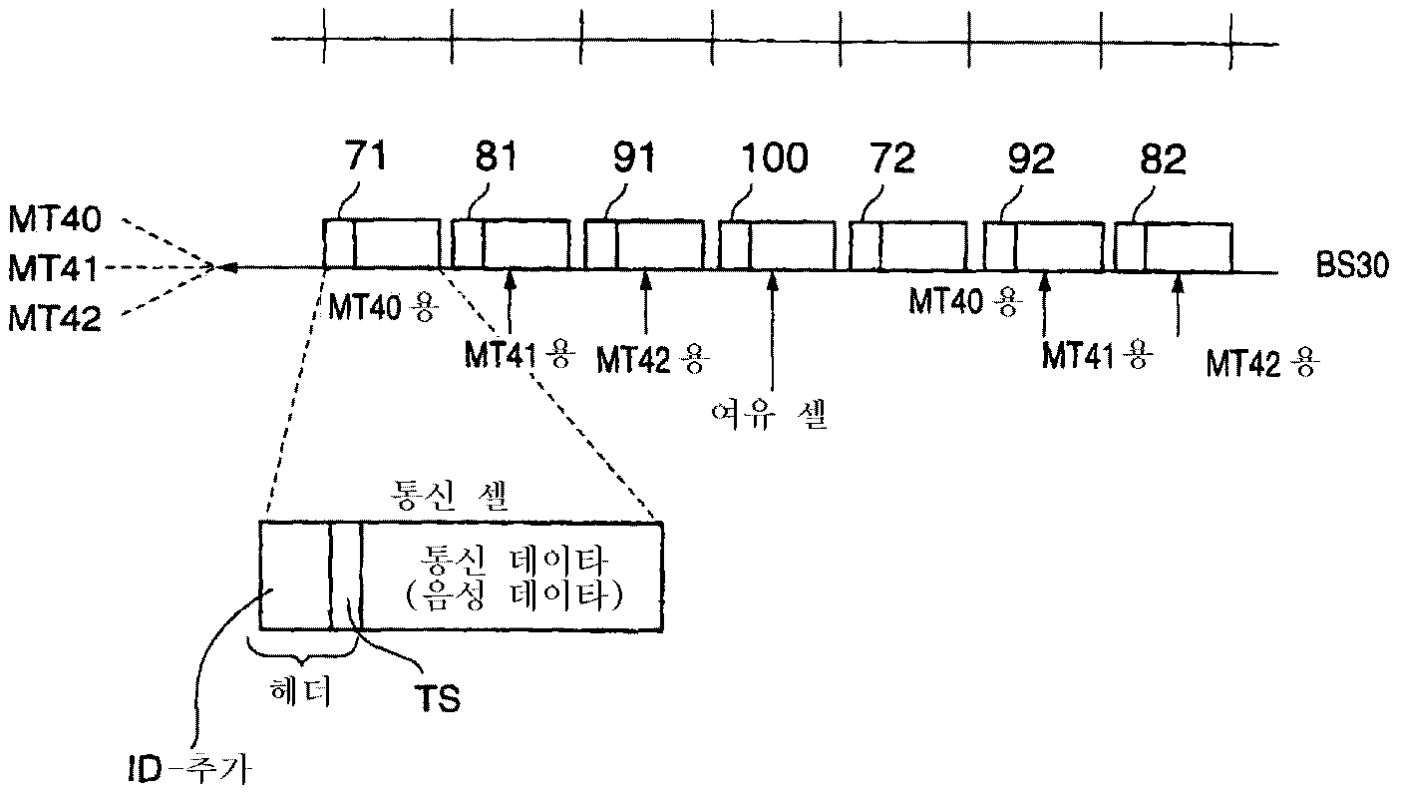
¹
어드레스 식별자

그룹 코드

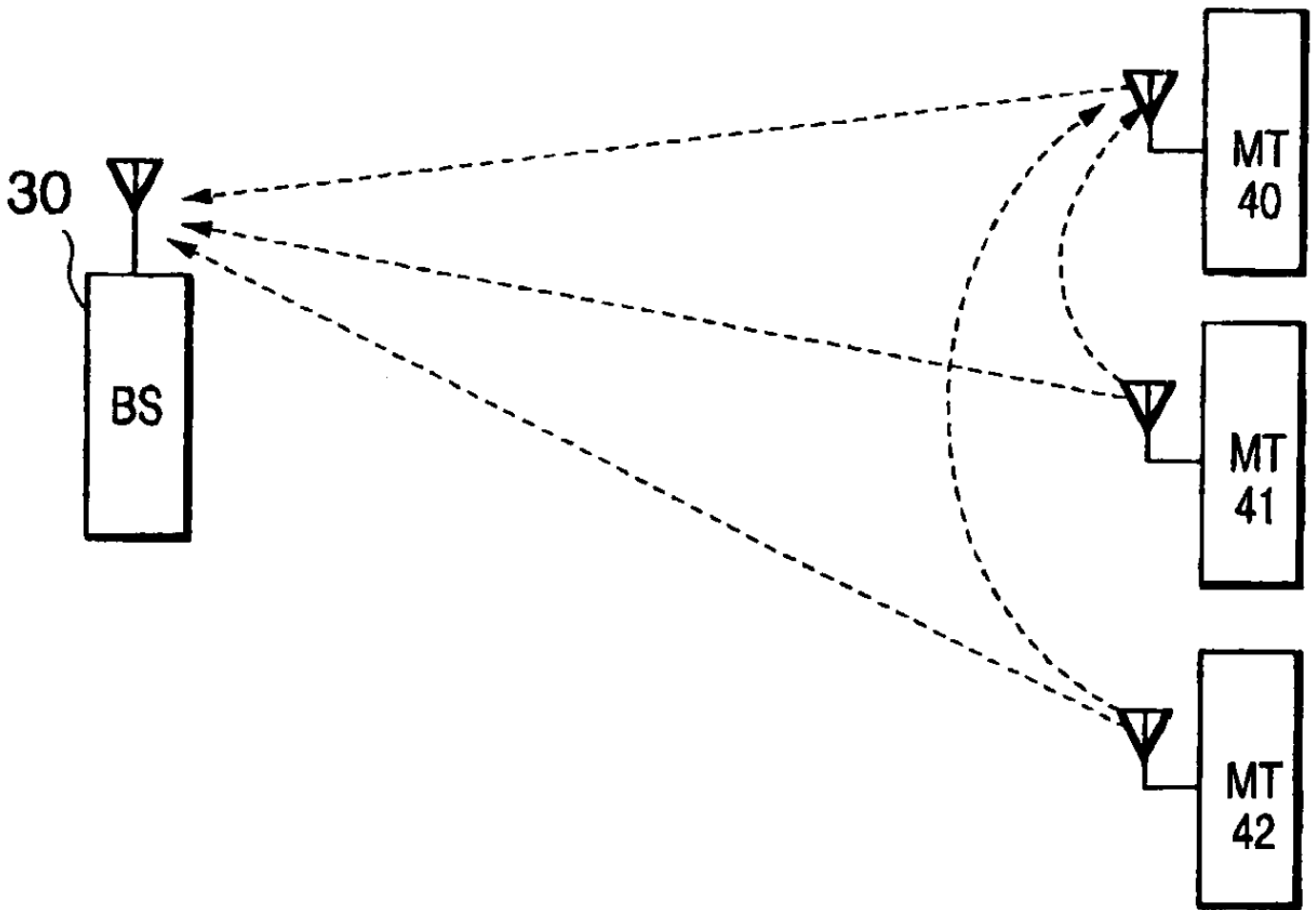
	AD#0	AD#1	AD#2	AD#m
#0	#0 AD#0	#0 AD#1	#0 AD#2	#0 AD#m
#1	#1 AD#0	#1 AD#1	#1 AD#2	#1 AD#m
#2	#2 AD#0	#2 AD#1	#2 AD#2	#2 AD#m
#3	#3 AD#0	#3 AD#1	#3 AD#2	#3 AD#m
#4	#4 AD#0	#4 AD#1	#4 AD#2	#4 AD#m
#5	#5 AD#0	#5 AD#1	#5 AD#2	#5 AD#m
⋮	⋮	⋮	⋮	⋮
#n	#n AD#n	#n AD#1	#n AD#2	#n AD#m



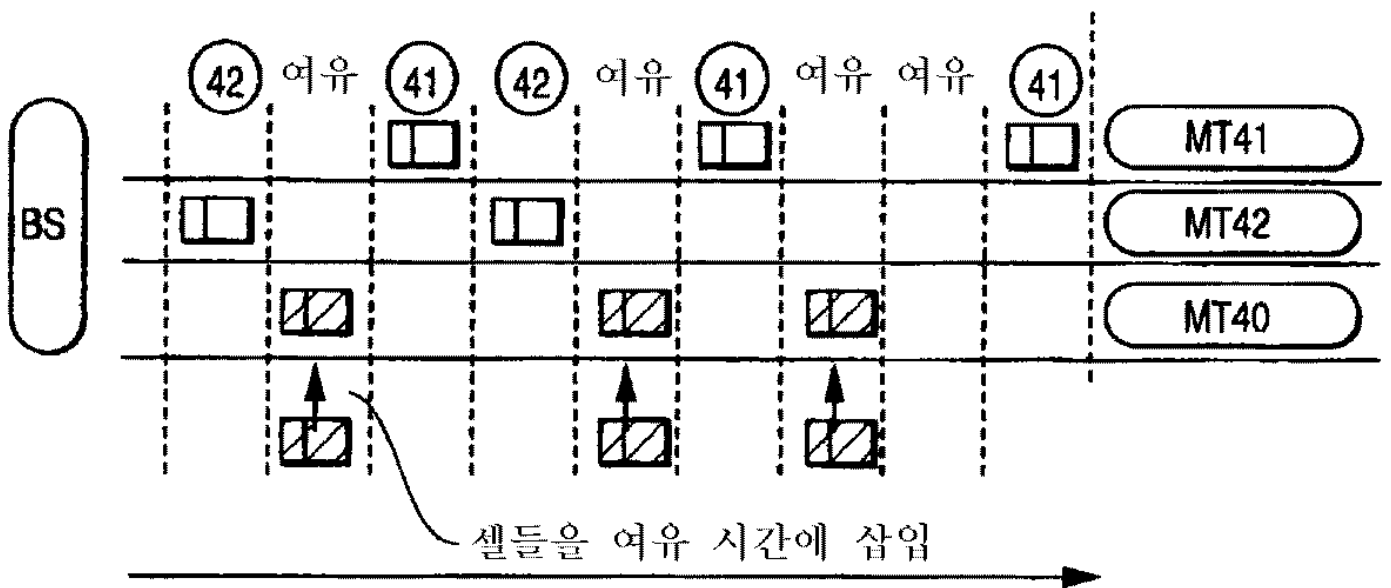
셀 전송 타이밍



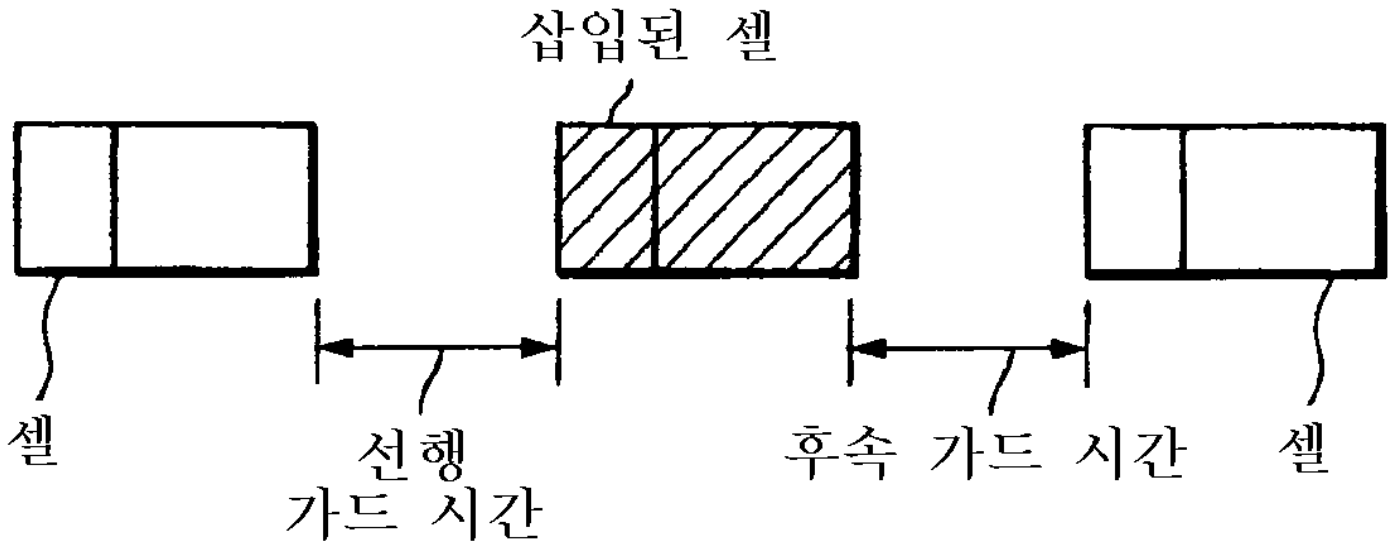
4



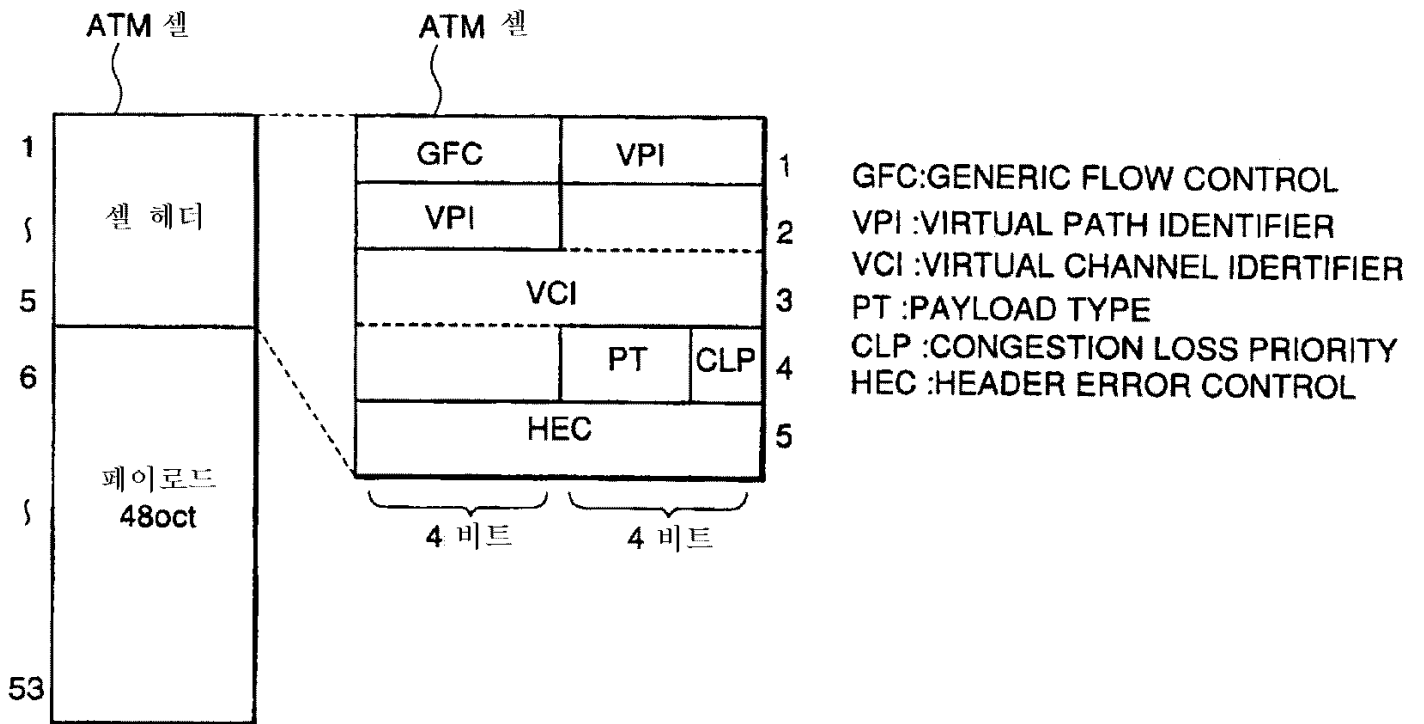
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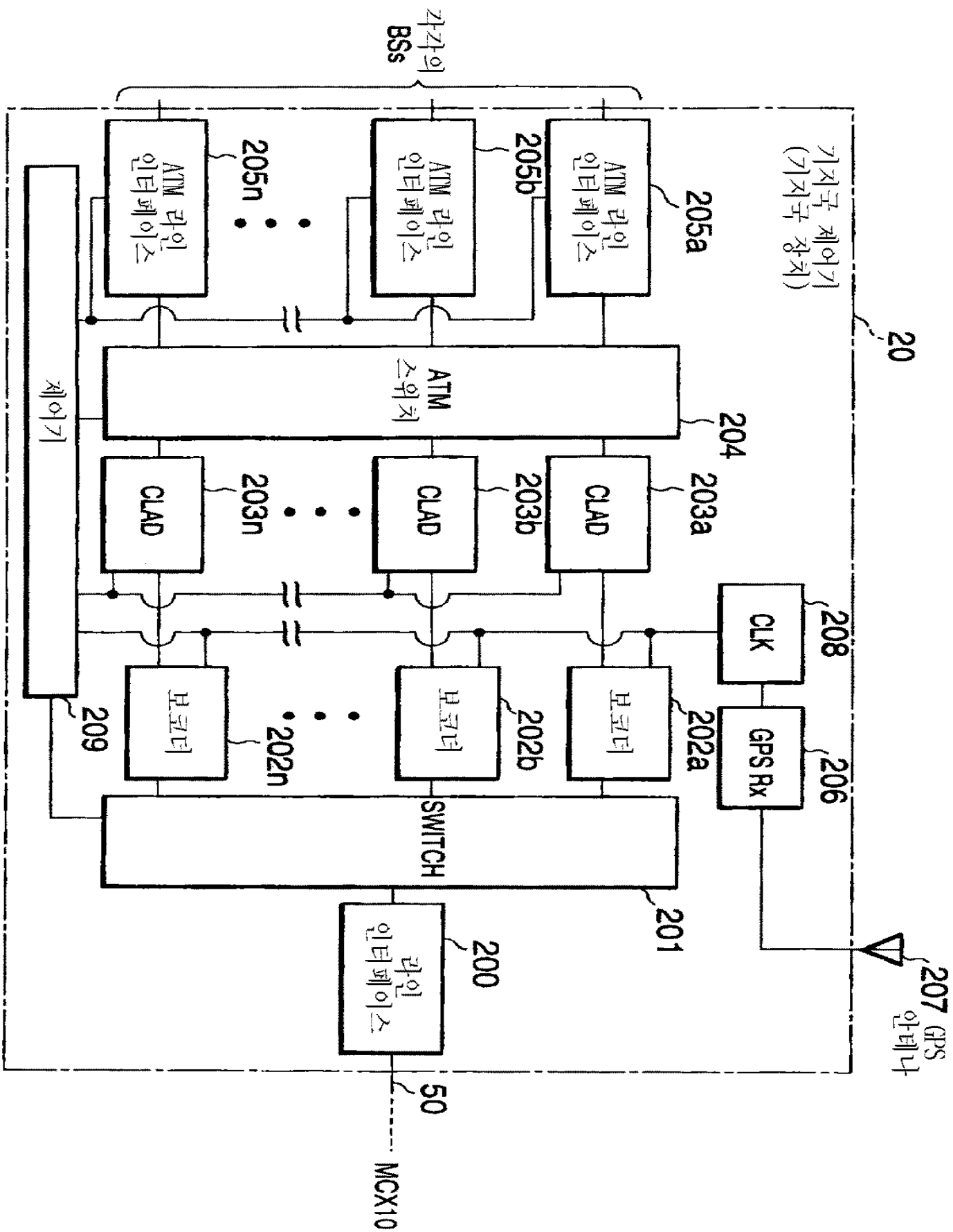


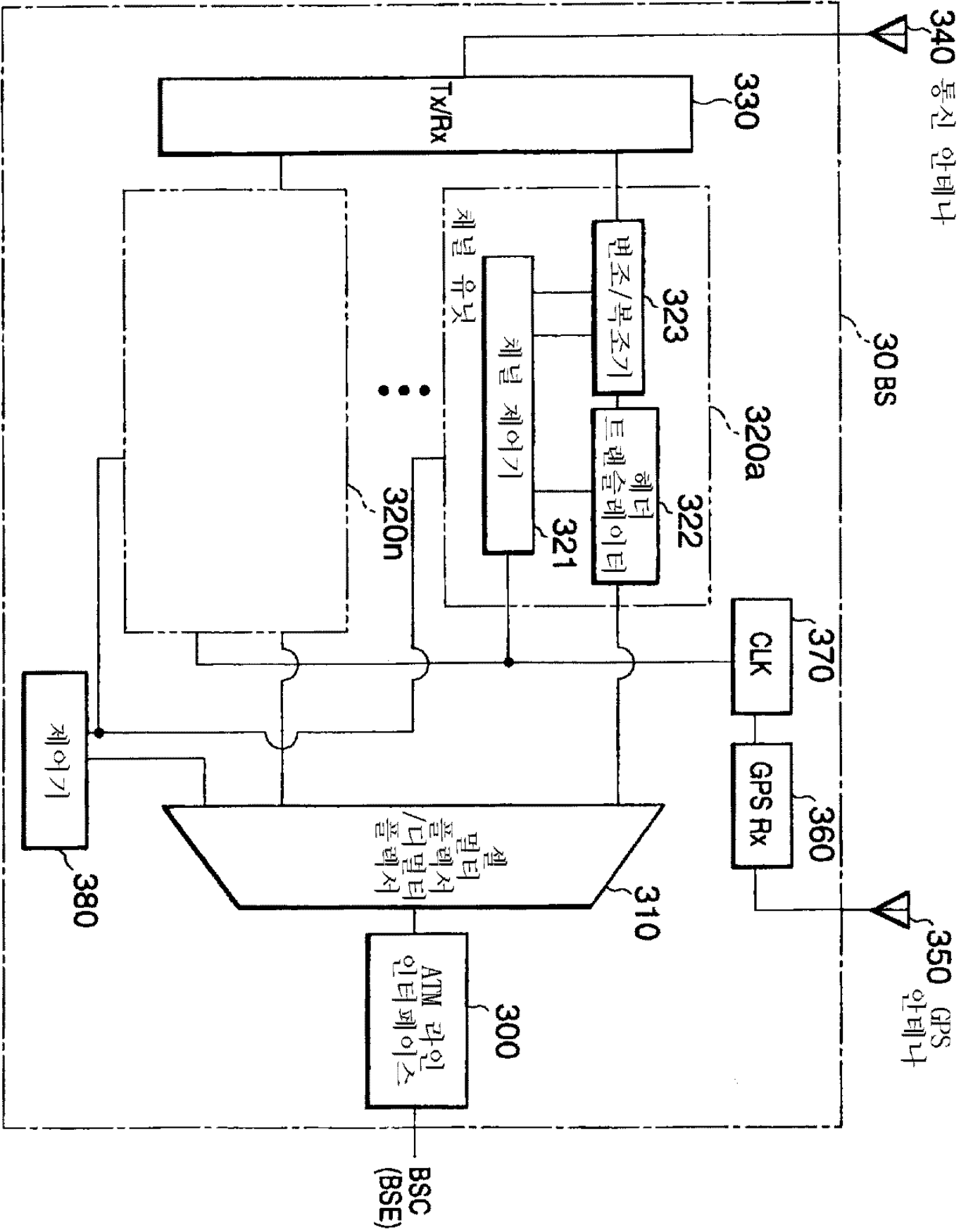
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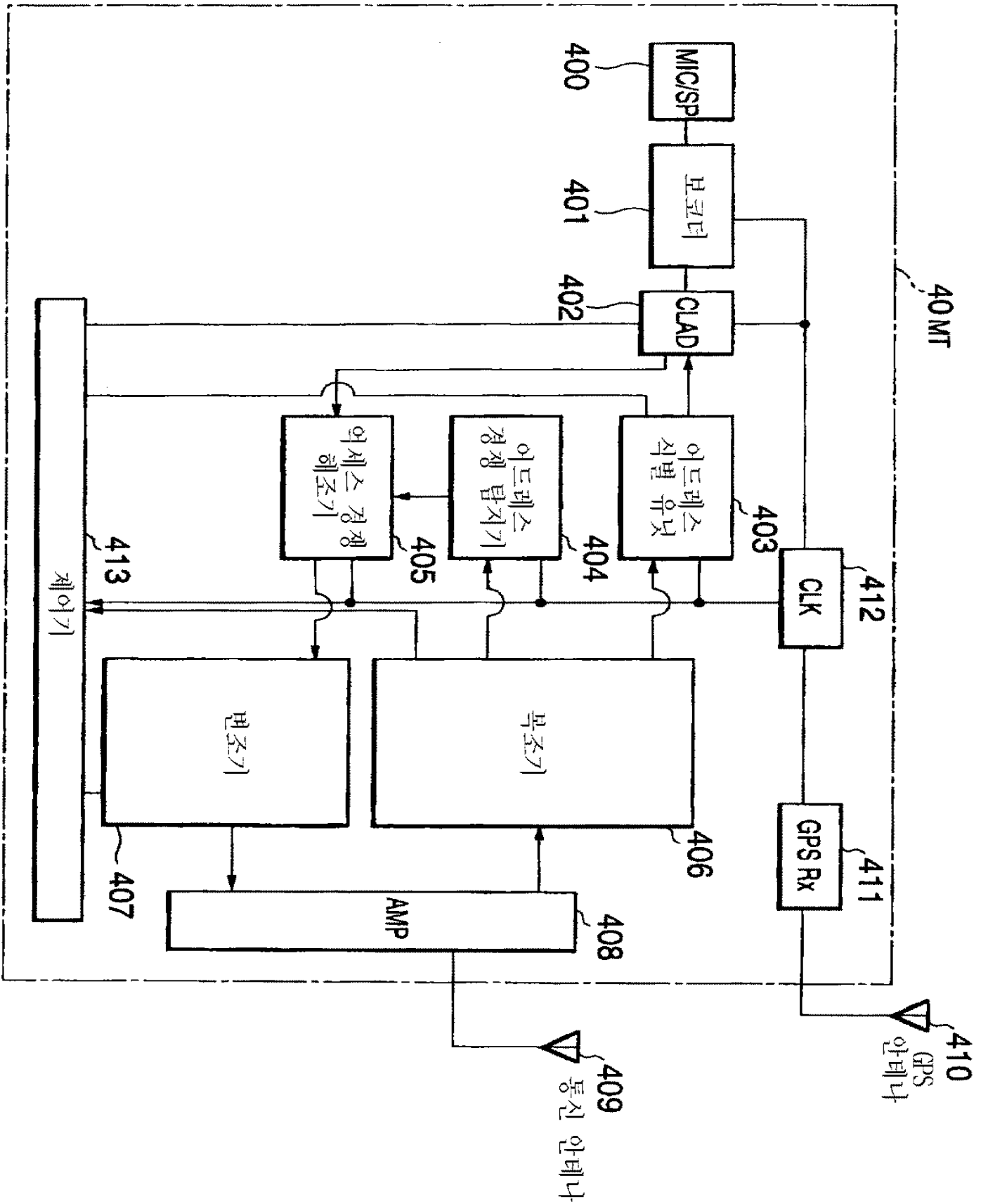


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