

(19)  
(12)

(KR)  
(A)

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(21) 10 - 2000 - 0067598  
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(71) 3 314

(72) 1207 - 101  
403 - 102  
3 2 25 502

(74) :

(54) . .

(INTERACTIVE) . . (CATV) , INA(Interac  
tive Network Adaptor) , INA  
( ) ,  
OOB , INA MAC ,  
(25) . .  
( ) .

, CATV, , , , ,

1 . . (CATV) .

2 . . . . .

3 . . . . .

4 . . . . .

\* \* . . . . .

11 : (IN BAND TUNER) 21 : OOB (OUT OF BAND TUNER)

22 : 2 23 : 2

24 : (CABLE MODEM) 25 :

26 : 27 :

28 :

(INTERACTIVE) . . (CATV) , ( )

, . . (CATV) (STB) ,

, MPEG ,

1 . . (CATV) , 1 , . . (CATV)  
MPEG , MPEG  
(TELETEXT) , , QAM ,

. . (CATV) ,  
(12) , (12) (11) , (11) 6Mhz 8Mhz ) (13)  
( )

, (13) AGC(15) , QAM (14) , QAM (14) ,  
 , , (16) , (16) , MPEG MPEG MPEG (1  
 7) , (16) (CATV) TV (19)  
 (18) . . . . .

. . . . . (CATV) , , 가 ,

r) , , INA(Interactive Network Adaptor) ( )  
 , INA OOB , INA  
 MAC , (25) ,  
 , (a) 가 ; (b) (locking) , 가  
 가 (fmax) ; (c) (b) 가 , 가  
 (fmax) 가 ; (d) (c) 가  
 , 가 (b) 가 2 1, 2 (c) (BAND1,B  
 AND2) 가 (fmax) , , 가 2  
 b) (d) 가 , 가 (c) ; (f) (

, . . . . . 가 .  
 2 . . . . . 2 ,  
 INA(Interactive Network Adaptor) ( ( ) ) , INA (1  
 ( ) , ( )

1) (CATV) (11)  
 OOB (21) ,  
 (26) , INA MAC  
 (26) /  
 (25) , (27) , OOB (21)  
 A/D ( )  
 (24)

2 (22) , 2 (22) OOB (21)  
 2 (23) , (24) (24)  
 (24) OOB (21) (28) , AGC(29)

3 (25)가 OOB (21) 가 3

4 CATV 70Mhz~862Mhz (BAND1,BAND2) , 4 CATV (BAND1)  
 1, 2 70Mhz~130Mhz , 2 (BAND2) 300Mhz~862Mhz

INA(Interactive Network Adaptor) (bridge) , INA(Interactive Network Adaptor)  
 ( ) 1:1 (broad cast) , (single cast) ( )  
 ( ) OOB (21) , (11) INA ( )  
 2  
 (25) OOB (21)

(a) (25) ( 3 S31 )

(b) (21) (11) (locking) RF (25) IF  
 OOB ( 3 S32,S33 ).

OOB (21) IF 2 (22) 2 (23)  
 가 가 (24) , , (25) ,  
 가 (25) 가 , 가 가 ,

(b) , (locking) ,  
 , , ,  
 가 , , ,

4 , CATV 70Mhz~862Mhz  
 , , 1 CATV 1, 2 (BAND1) 70Mhz~130Mhz , 2 (BAND1,BAND2) (B  
 AND2) 300Mhz~862Mhz .

(c) (b) 가 , 가 (fm  
 ax=862Mhz) ( 3 S34 ).

(d) (c) 가 (fmax)  
 가 가 , 가 (b  
 itrate) (b) ( 3 S38 - S40 ).

CATV , (bitrate) 1.544Mbps 3.088Mbps ,  
 .

(e) (c) 가 (fmax)  
 가 2 1, 2 (BAND1,BAND2) 가 , 가  
 2 , 가 가  
 (c) ( 3 S35 - S37 ).

(f) (b) (d) 가  
 , , .  
 ( ) , 가 , .  
 , 가 가

(57)

1.

INA(Interactive Network Adaptor) , INA  
 ( ) (11) , (11)  
 OOB (21) , INA MAC (25)

- (a) ;
- (b) (locking) , 가 ;
- (c) (b) 가 , 가 (fmax) ;
- (d) (c) 가 (fmax) 가 ; (b) 가 ;
- (e) (c) 가 (fmax) , 가 2 1, (BAND1,BAND2) 가 , 가 (c) 2 2 , 가 ;
- (f) (b) (d) 가 ;

2.

- 1 , (b) (locking) , 가 ,

3.

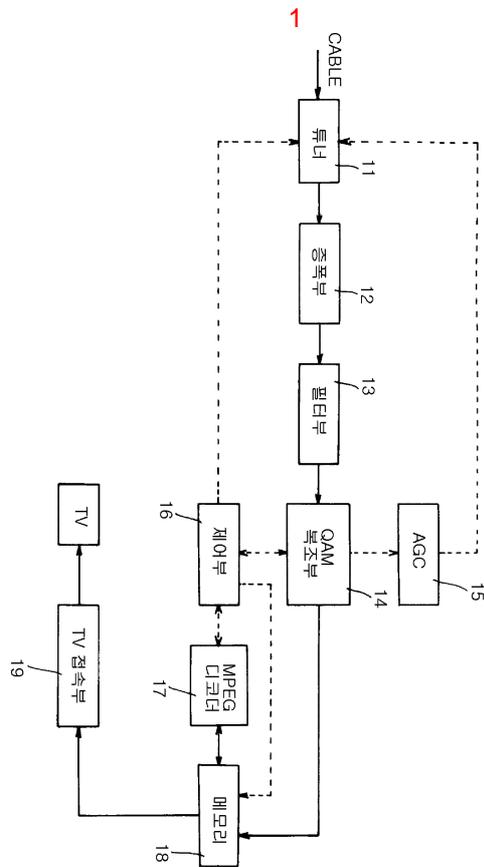
- 1 , (d) (c) 가 (fmax) 가 (b)

4.

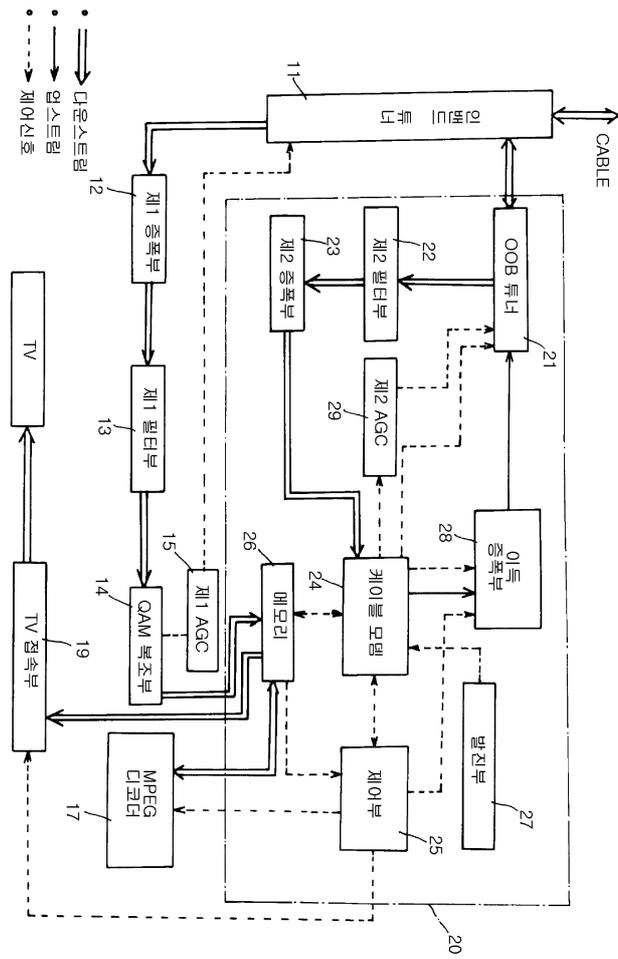
- 1 , (e) , 1 (BAND1) 70Mhz~130Mhz ,

2

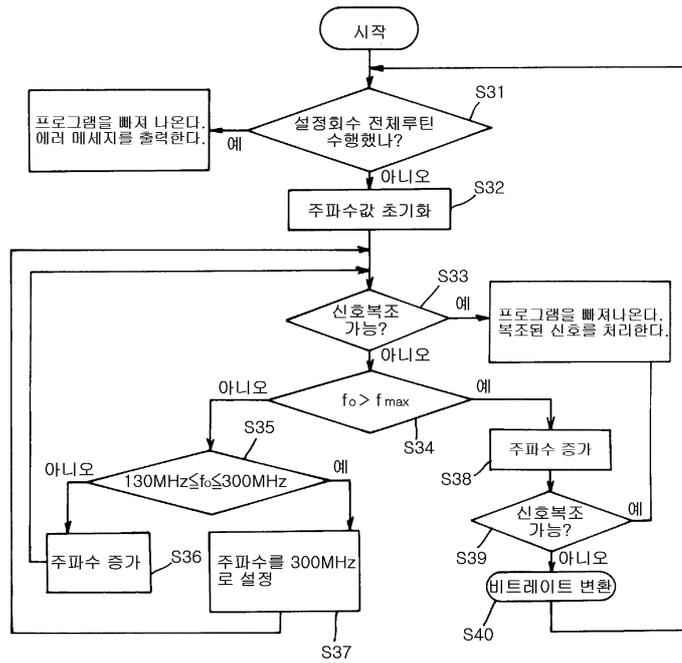
(BAND2) 300Mhz~862Mhz



2



3



4

