

(19) (KR)
(12) (A)

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H04N 5/44 (43) 2004 12 17

(21) 10-2004-7018083
(22) 2004 11 09
2004 11 09
(86) PCT/US2003/014650 (87) WO 2003/096672
(86) 2003 05 09 (87) 2003 11 20

(30) 60/379,695 2002 05 10 (US)
60/426,955 2002 11 15 (US)

(71) 92648 46

(72) , 46234 20925
, , 46060 7234
, 46074 318
, 46254 7485
, 46060 8905

(74) :

(54)

(20) , (20)
(22, 42) , (26, 53) ,
(26, 53) , 가 가
가 가 , 가 가

4

, , , ,

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60/426,955

2002 5 10 2002 11 15
가 .

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A)

, , , , ,
 .

(NWS)

(NOA

, NWS NOAA

가

가 NWS NOWW

가

가

가

,

가

가

가

가

가

가

가

가

가

;

1

2

3

4

5

6 5

,

.

) , 1 (10) , (dwelling unit; 15)(, 1, 2, 3,..., N, (100) , N , 1 , (100)
 . 1 (15) , , / , 가 , , , , , ,
 , , , , / 가
 . (15) , ,
 L (20) .

()

(

VCR)

,

,

.

(10)

(20)

NWS

(20)

(10)

, , , , , , 가 (DSL) / /

(20)

2

, 1
(20)

(20)
(21), (22),

가 , 2 ,
(23), (2\$), (25),

(26), (28), (29), (31), (32),
 (IF) (33), IF (34), (BPF; 35), (36)
 . (IC)
 (20) 2 .

(21) 1 (10)

(21)

(22) ,

(21)

(22) NWS : 162.400MHz, 1
 62.425MHz, 162.450MHz, 162.475MHz, 162.500MHz, 162.525MHz 162.550MHz
 가 ,

(23) (22) NWS , (23) /

(24) (23) . (23) .

(25) (23) . (FSK) ,

(26) 가 (SAME) . SAME (SAME NWS)

(26) (20) . (26)

(26) (20) 가 가 (), (

(26) (20)가

FPD(27) (20) , FPD(27) (indicator element)

가 (viewable) (LCD) () LED (LED) LCD , F

LCD PD(27) LCD / LED (LQD) LCD , /

FPD(27) (20) / (20)

() 가 (20) LED, LCD, LQD, / (CRT) 가

(DVD) LD

(28) (28) NWS

/ (28) (29) (28)

(29) (29)

(31) 1 (10) /

(31) (31)

(32) (31) / IF (32) 2 IF (34) IF (AGC) , IF

() (33) IF (33)가 (33) (SAW) IF (33)가

IF (34) IF () (33) IF , IF (34)

35) IF , IF , BPF(35) 4.5MHz , BPF(

(FM)

(36) IF (34) (36)

) (37) (36)

3 , (20) (41), (42), IF (43), 가 3 ,

45), AGC (20) (46), AGC (47), IF (48), BPF(49), (44), FM (52),

(53), FPD(54), (55) (56) (50), (51), (20) 3

(IC)

(41) 1 (10) /

(41)

(42) (42) (41) /

162.500MHz, 162.525MHz 162.550MHz NWS : 162.400MHz, 162.425MHz, 162.450MHz, 162.475MHz,

(AGC) IF (43) IF (44) 3

(SAW) IF (43) 44)

FM (45), AGC (46), AGC (47) IF (48)(, FM NWS

) , AGC (46) (42) AGC (45) IF (48) (47) IF

(48) AGC (47) () (45), AGC (46), AGC

IF (48) IF (43 44) IF IF . BPF(4

9) IF IF , 3 , BPF(35) 4.5MHz ,

FM

(50) IF (48) (36)

) (51) (50) (50)

(52) IF (48) FSK 가 ,

(52) , SAME ,

(, , , 가 ,)

(53) (20)

(53) (52)

(20) (53)

(53) (20) 가 가 (), (

(20) (53) (20)가

FPD(54) (20) , FPD(54) 가
 , LED LCD ()
 LED LCD LCD L
 ED LCD , FPD(54) /
 (LQD) , /

FPD(54) (20) /
 (,) , (20)
 , 가 (20)
 LED, LCD, LQD, / (CRT) 가
 LD DVD
 (55) , (55) NWS
 /

(28) (56) (28)
 (56)
 4 , (400)가 4 2
 3 (20)
 , 4 2 (20) 4 ,

401 (20) 가 ,
 (29) (20,
 (20) 가 (EPG) , 401

A. / -

B. -
 NWS : 162.400MHz, 162.425MHz, 162.450MHz, 162.475MHz, 162.500MHz, 162.525MHz, 162.550MHz

C. -
 , , /

, NWS /

D. -
 , , , / 가 , ,

D. -
 , / NWS (,) /
 (20) NWS FPD(27)

F. -
 (20) , , / (),

G. (20)가 / (F
,
,
401 / (26)
401
402 (20) 401
(B) (22)
(20)
가 /
403 (20) 401 (26)
, (26)
,)
(C D) (26) SAME (26) 401
(20) 가 가 401
() / ()
403 402 (202)
403 404 (20) 401
(E) (26)
404 / NWS 가 (24) / (37)
가 401
FPD(27) / (29) 404
, NWS () /
, FPD(27) 가 (29) 404
(500) 5 (501)
() / ()가 (501)
(600)가 (501)
FPD(27)
6 5 (600) 6
, (600) (20)
(601 604) LED, LCD / LQD
6 4 가
가
6 (601) (20) 604
가 (602) (602)
(603)
(604)
, 6
/ (600)
/ 가 /
404

405 , 401 (20) 405 , 404 ,
, , 406 (26) (20) 405
, , (20) 401
406 , 402 , (20)
011 (,) , 4
(, G)
(26)
(20)
(DVD) , (PVR), (VCR),
(57)
1. (20) ,
(22, 24);
(26,
53)
2.
1 ,
3.
2 ,
(closed caption)
4.
1 ,
(indicator element) (27, 54),
5.

- 4 ,
(27, 54) ,
.
6.
1 ,
(27) 1
.
7.
1 ,
.
8.
(20) ,
(22, 42);
가
(26, 53) .
9.
8 ,
.
10.
9 ,
.
11.
8 ,
(27, 54) ,
.
12.
11 ,
(27, 54) ,
.
13.
8 ,
(27) 가 1
.
14.
8 ,

15. (20) (400) , (402);

(404) 가 ,

15 16.

16 17.

15 18.

(20)

18 19.

가

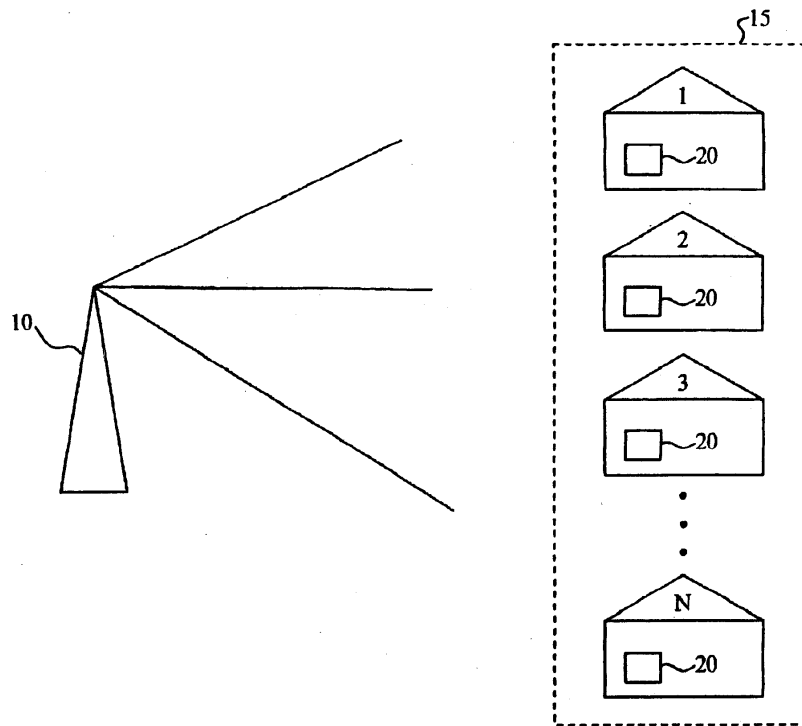
15 20.

가 1

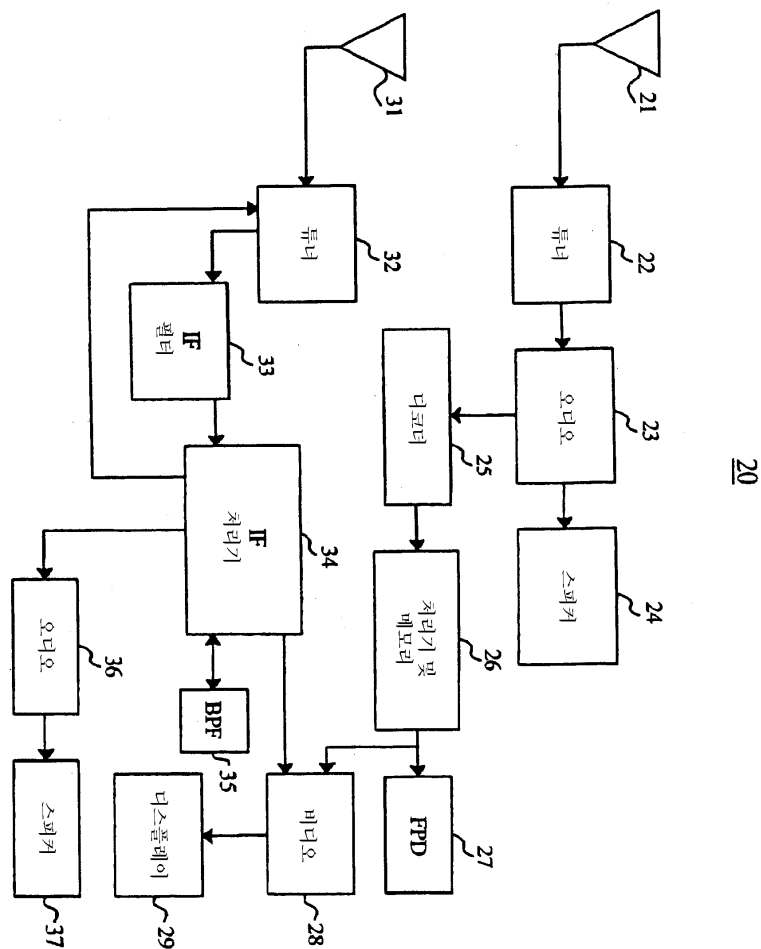
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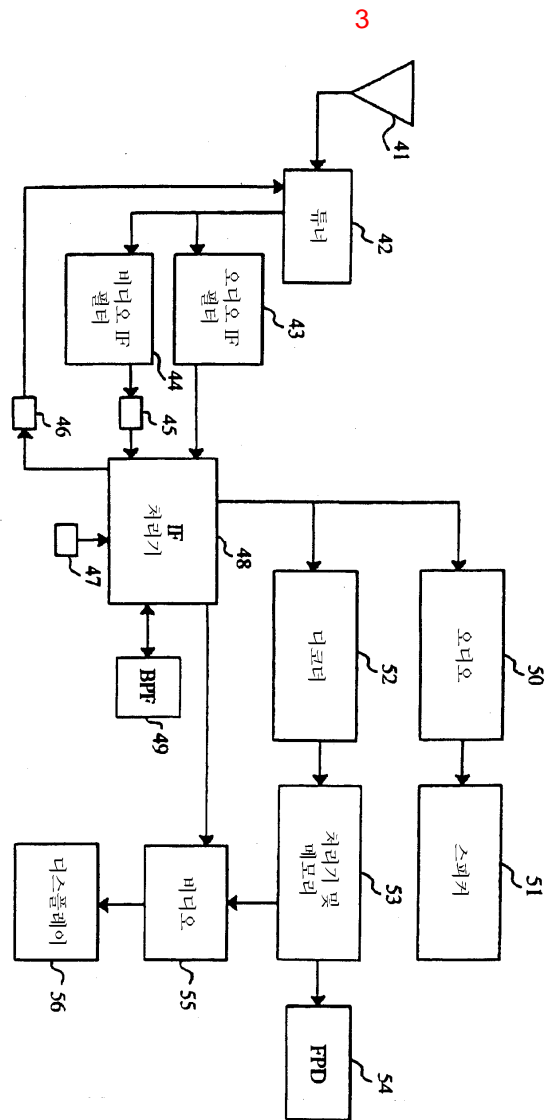
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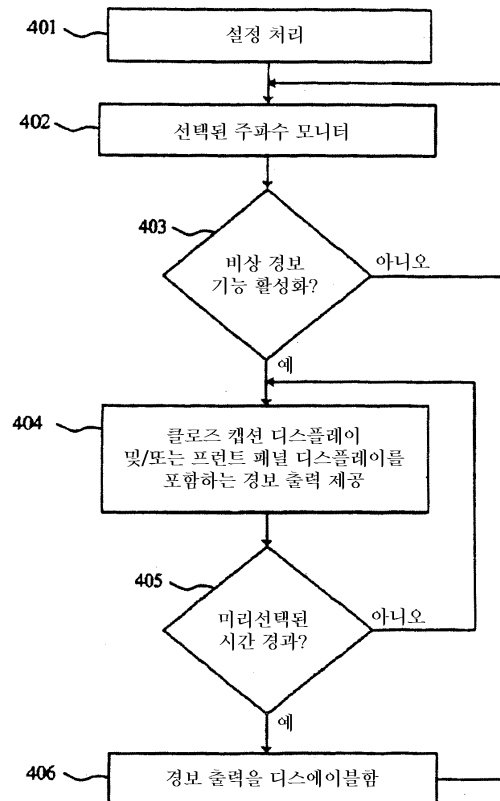


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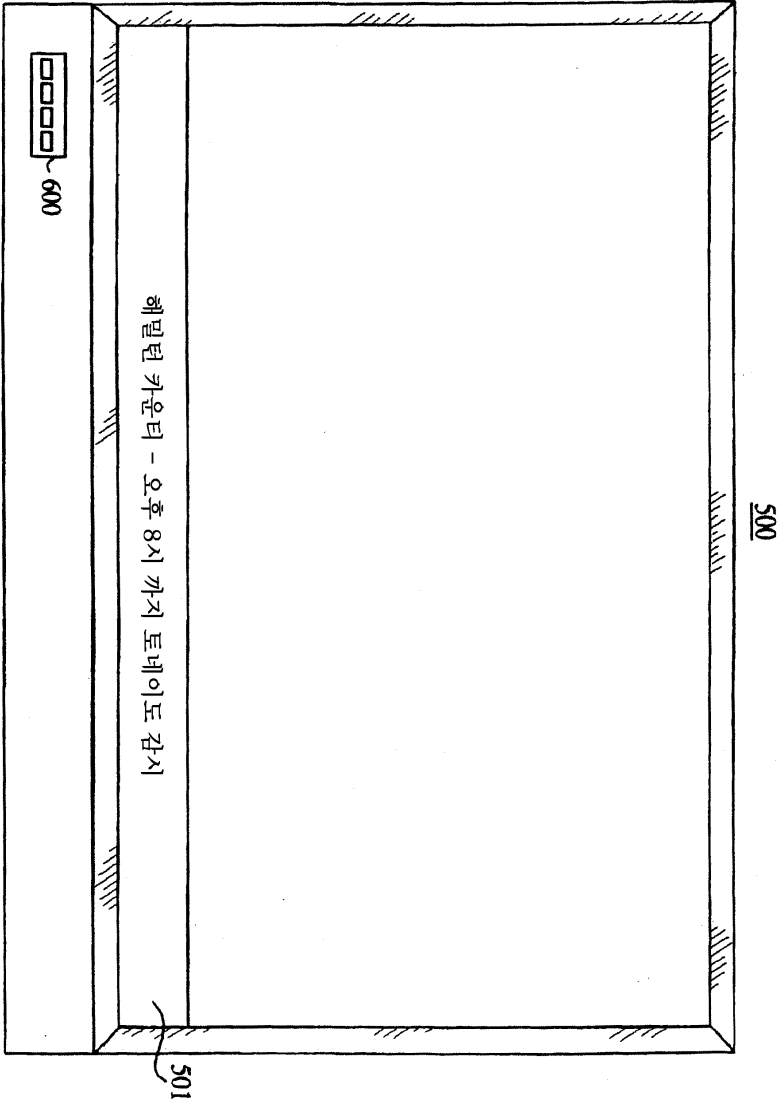




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600

