

(19)
(12)

(KR)
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2002 02 09

(21) 10 - 2001 - 0046966
(22) 2001 08 03

(30) 1020000045209 2000 08 04 (KR)

(71)

2 487 403

(72)

314 - 1

(74)

:

(54)

, 5V

ISP()

(PCI PC()) ,

(ISP) (, LAN, ,)

3

, , , ,

1

2

3

4

5

ISP

1 : PC 2 :

3 : 5 :

6 : 7 :

8 : 9 :

10 : 13 :

14 : 23 :

24 : 25 :

101 : PLT 106 : LAN. ISP(SUB)

, 5V

,) , (,
 , (2) , (8) , (4), (12),
 (13), , (12) , (9), (10),
 , (7) , ,

, , 25 55 0.15 (,
) 1 25 . 2 35 . 3 45 . 4 55
 () ,

, 가 1 2 1
 , 가 PC(1) PC

(3) ISP PC(3)

(ISP) IP()
 PC(1)

(ISP)(6) (ISP)(6)

, (1) (ISP)
 (6) (PC)

PC 18 25

가

3 4
 PC(1,4: PCI) PC)
 (2) PC(1,4)
 가 PC(1,4) (2)
 PC(1,4) (5),
 (6), (7), (8), (9) (10)
 (13), (14), (15),
 (16), (17), (18,19), 가 (20), (21), (22), (23),
 (24), (25)
 가
 PC (1,4) (5) , PC(1,4)
 PC (6)
 가 ±20V
 (5)
 (7) , PC(1,4)
 (5) (8) ((16)
 (21) (5) 가 (5)
 (23) 가 (8)
 가 (20) (8)
 (5) (9) (8) 가
 (10) (9) (9) (9)
 (20) (9) , 가 25 35
 (2,26,27) 가
 (5), 가 (20), (25)
 (8)
 가
 (25) (2,26,27) (8)
 (5) (6), (7),
 (8), (9), (10) (24) (25) (25) (8)

(23)

(Saturation region) (Active Region) (cut - off region)

0

가 (2,26,27)

, PC(1,4)

PC

PCI

PC(1,4)

(4V,6V,12V)

가 PC(1,4)

가 , PC

(5)

(5)

가 (5)

(25)
(5)

PC

(25)

(16)
(22)

20 2100 Hz

(15)
(14)

(22)

(5)

NDOWS)

1 , 386

PC

(DOS)

(WI

FDM(Frequency Division Multiplexing)

(2,26,27)

가

Treillis Code Modulation)

(QAM; Quadrature Amplitude Modulation)

(TCM;

20 34 Hz가

가

, 5

(

101) (102) PC(101) PCI ()
) PC(101) (102) PC(1) PCI (102) PC(1)
 (102)

, (102) PC(101)

0), (111), (113) 가 (108), (109), (11

, 가) PC(101) (107) PC(101) ()
 가 PC

, (109) ± 20V

(108) (110)

PC(101)

PC ± 20V) (107) () : PC
 () () , ,
 ()

2), () () (IP) 가 (105) (10
 (112) (108)

(112) (113) 가

, (102) 가

가

26)() PC(101) (1
가

가

(107) (102) (108) (109), (110), (111)
(: 100km 40 70km)
(126) (126)
()

LAN ISP ISP
가
(Saturation Region) (Cut - off Region)
(Active - Region) " 0"

가

가 (102) , PC(101) P
CI PC(101.104) (.4V. 5V.6V.12) . PC

가 PC(101) 가 PC
(108) (108)

가 (108)
가 (108)
PC (123) (126)
20 2100 kHz (126)

(126) (108)

NDOWS) 1,486 PC (DOS) (WI

(FDM: Frequency Division Modulation) (QAM
: Quadrature Amplitude Modulation)
20 34MHz가 가

가 PC PC
10 MBPS 1.5 GMBPS()

TV, LAN, 가 가 가
(PCI) 가 PC PC
PC ISP ()

가 ,가 가 PC, TV,
200km km(1 3
0km) () 50 Mbps

(57)

1.

PC(1,4)

2.

1

3.

1 ,

가

4.

1 ,

5.

PC , PC ISP ()

6.

5 ,

ISP

7.

5 ,

CCTV

8.

5 ,

,가 , ()

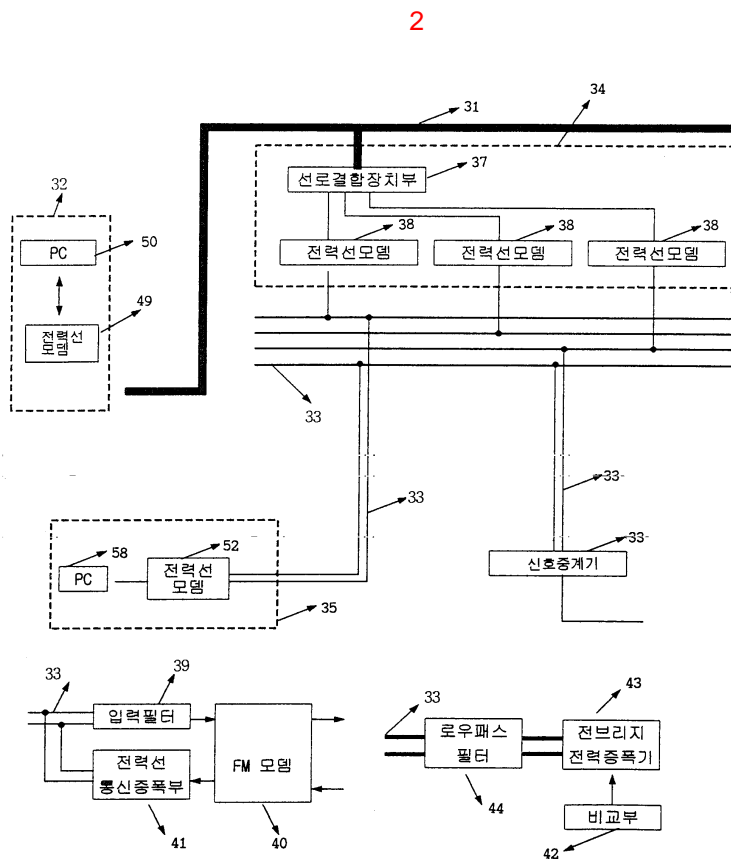
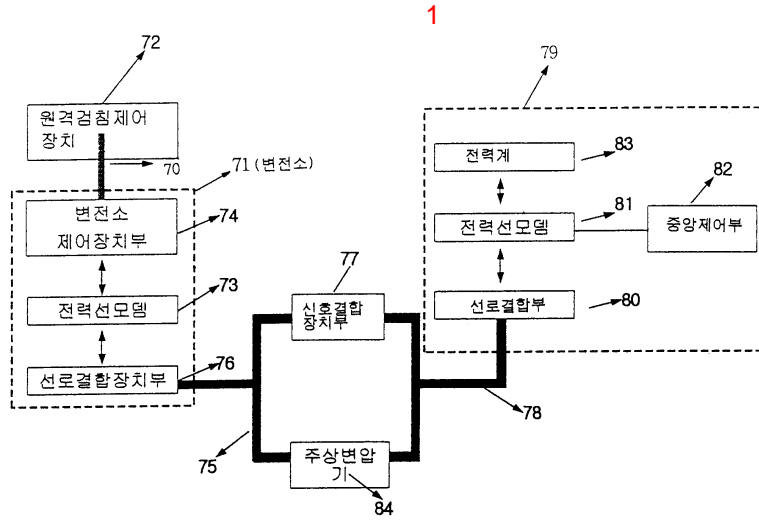
9.

5 ,

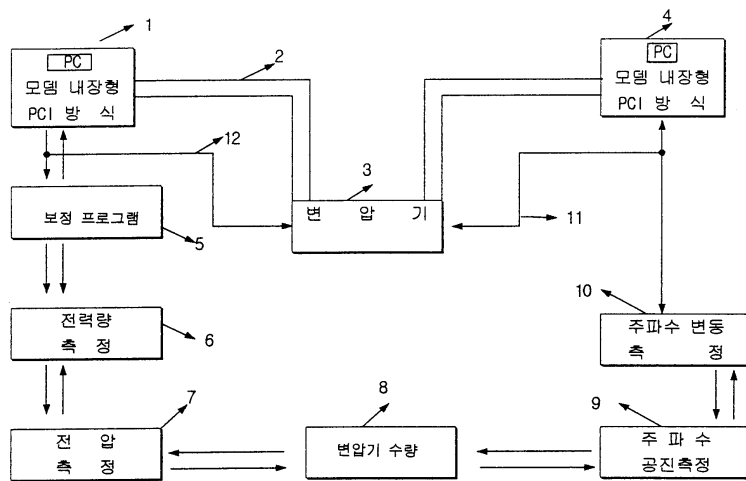
10.

5 ,

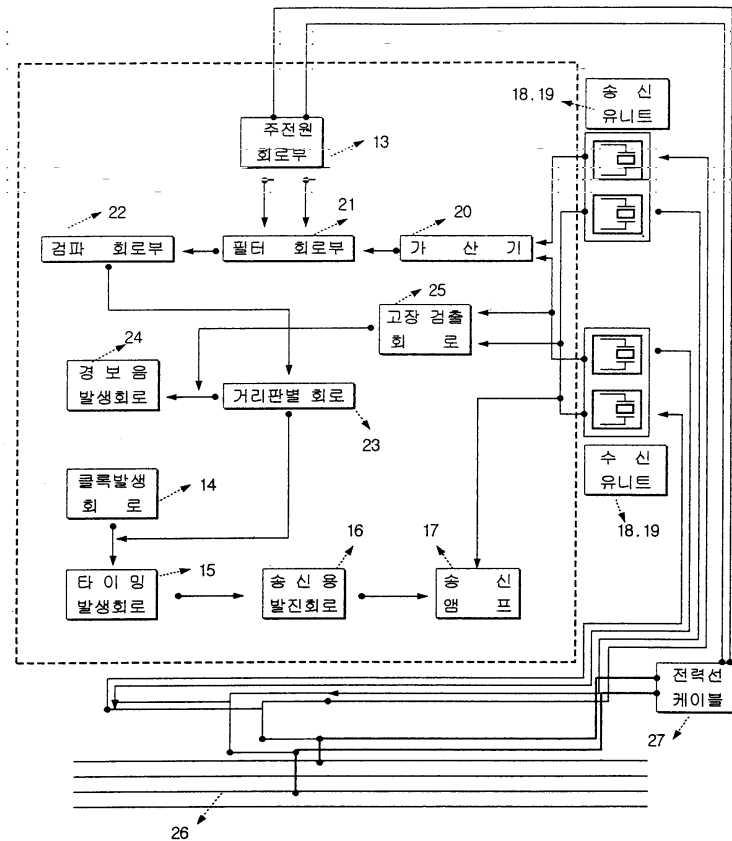
TV



3



4



5

