

(19)
(12)

(KR)
(B1)

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H04B 3/54

(45)
(11)
(24)

2003 03 03
10 - 0374236
2003 02 18

(21) 10 - 2002 - 0018089
(22) 2002 04 02

(65) 0000 - 0000000
(43) 0000 00 00

(73) 12 20

(72) 725 - 3 5 502 202

(74)
:

(54) ,

가

1

1

2 1 ,

3 2 ,

4 2 ,

5 ,

6 ,

7 ,

8 .

<

100 :

10 : 20 :

30 : 40 :

50 : 50 - 1 :

50 - 2 : 50 - 3 :

50 - 4 : 50 - 5 :

50 - 6 :

200 : 300 :

가 ,

가 (110V/220V AC 380V 35KW) 가
(LAN,)

가

() 가
가

가 /
가

IP

IP IP, IP

가

, , ,
, , ()

, , 1 2

, (1) ; (2)

IP (1) , IP IP, IP ,

, (1) ; ;

, 가

, , , , ,

, (1) , ()

, (2) , 1 2

, (a) ; (b) IP, IP, IP
, IP ,

(a) ; ; ; 가

;

(a) ()

1 , 2 1 , 3 2 , 4 2 (100) (10) (20) (30) 2 (40) (50)

(10) (300) ; ,

(20) 가 ; ,

(30)

(40) (300) 가 , 가 (100)가 (300)

가 (50) (10) (40)

(40) (50) (100) (40) (PCI) () (300) (100) (100)

4), (40) (40 - 1), (40 - 2), (40 - 3), (40 -)
 (40 - 5), (40 - 6, 40 - 7), 가 (40 - 8), (40 - 9), (40 - 10),
 (40 - 11), (40 - 12), (40 - 13) .
 , (40) , 가
 , (40) 2001.08.03 " "

(50) (10) (50 - 1),
 (50 - 2), (50 - 3), (50 - 4), (50 - 5)
 (50 - 6) .

(50 - 1) (100) (100) (10
 0) ()가 , , , ,
 , (50 - 2) , 가 ±20V
 (300) , , (50 - 1)
 (50 - 1) , 가 .

(50) (50 - 1) (50 - 1) (40 - 11)
 , (50 - 1) (50 - 4)
 (40 - 4) (40 - 9) .

(50 - 4) 가 (40 - 11) 가 ,
 (50 - 1) (40 - 8) (50 - 1) ,
 (50 - 1) (50 - 6) (50 -
 5) 가 ,

(50) 가
 (50 - 4), (50 - 1) (50 - 2), (50 - 3),
 (50) (50 - 5), (50 - 6)
 , (40 - 13) (40) (40 - 12)
 (40 - 11) 가 .

5 , 6
 , 7
 , 8

(가)가 (300) 5
 (100)

() PCI NIC(Network Interface Card)
 CD CD

(50) CD CD가 (S100).

S100 CD CD가 (S100) (50) CD
 가 (S102)

S100 CD가 (S100), (50)

S102 가 (S102),
 (S104) , (50) (30) (S106)

S102 가 (S102)
 S106 (50)

가 (S108) (S108),
 (50) (30) (S110).
 가 (S112)(S114) 가
 system) (S116). (50) (100) OS(Operating S
 OS 가

S108 (S134), (S134) (S108), 가 S10
 8 (S134)

S112, S114 (S112
 , S114), 가 (S136), (S136)
 (S136) S112

(100) OS WIN95, WIN98, WIN.ME, WIN.NT, WIN.XP DOS
 OS (S118) , ()가 (S118),
 (50) 가 (S120) , 가 ()
 100) (S121)

S118 OS (S118), 가 S118
 (S138), OS (S138) (S138)

S120 (S120), 가
 (S140), (S140) (S140)

S120

(S122), (50) 가 (S122) (S123), C
D (100) (S124) CD (S124), (50)
(S126), 가
(S128), (50) IP,
DNS(Domain Name Sever), (S132), S132, 가 (Booting)(S130)
(300)
S100, 가

S124, S124, CD (S124), 가
(S142), (S142) (S142) (S142)

S124, S128, (S128),
가 (S144), (S144) (S144),
S144) S128 (

(100) (50) 6
(10) (S210) (10)

(10) () 가 (100)
(power supply) 200W, 300W, 380W ()
가, 가 ()가 ()
(300) 50Hz 60Hz (50)

(50) (100) (S230),
(100) (50) (S240),
(200) (200) (S250)

(50) (eB/4 m),
(300) 가

(L,C) (resonance circuit) f_r 가 $f_r = \frac{1}{2\pi\sqrt{LC}}$
가

(300) (100) (200)
 (가) 7
 (20)
 (50) (가)
 (S410). S410 (S4
 10), (50) IP(: address222.222.77.248) IP(: address 211.227.
 88.299), IP , IP (300)
 (S420) . IP
 (100)가 (point to point)
 IP (100)가
 IP , IP
 IP , IP
 , URL 'Exscoms:http://www.URL...' "Exscoms"
 (50)
 URL(Uniform Resource Locator) (S430)
 URL 'Exscoms:http://www.URL...'
 URL
 S430 (가)가 URL URL
 (S440). S440 URL (가
) (200) (300)
 (200) (S450) (200)
 S410 (S410)
 (100)
 S440 URL (S440)
 (50) (가)가 (S460) S440
 S410 S420
 (IN)/ (OUT) 2 ,
 2 3 (power supply) ()
) 가 (power supply) 4
 , 4 200W , 12V, 5.4V, 2V, 3.3V
 (50) (CODE)
 IP , IP ID .

IP 4 6
 4 (000.000.000.000) 6 (000.000.000.000.000.000)
 (50)
 OS(Operating System) (가)
 가

(50)
 ()

(DTE : data terminal equipment)
 (DCE :data circuit terminating equipment)
 (PSTN :public switched telephone network)
 (modem)
 (DSU :digital service unit)

(50) (point to point)
 , 20Mbps 1,2Gbps 가

IP 32 (4byte) IP 4 10 (.) IP
 IP , A, B, C 3

, A 7 24 가 , C 21
 8 . B 14 16 가 , C 21
 D , 32 4 1110

IP (KRNIC), IP (APNIC) ISP

IP 가 IP

가 IP IP 가 A, B, C, D WAN(Wide Area Network, IP) IP

, IP IP . 2 가 , 4
10 가 .

A = 00001010 00000000 00000000 00000000 = 10.0.0.0

B = 10000000 00000011 00000010 00000011 = 128.3.2.3

C = 11000000 00000000 00000001 00000111 = 192.0.1.7

D = 11100000 00000010 00000011 00000001 = 224.2.3.1

(50) (200) (200) (200)
(200) , (200)

(200) (100) 1 2
(100) (100)가 , 1 1
가 , ,

2 2 1 2 가
() 2 가 1

01010 (200) 010101 , 1
(200) 0101010101~ (,
) 101010101010~ 가 ()
(Cross cable) (300)

IP () 가 가
가 가

(50) 10~40MHz
10~40MHz

8 (S310) (50) (30) (50)

(S320) (50) (100) (10) (S330) (300)

(S350) (S370) (50) S320 (S350) (S370)

) (50) S360 (S370)

가 (10) (S330) (50) ()

(S380).

(50)

() (50) (300)

(A, B, C) 가

(가)가

가 / 가

(57)

1.

;

2.

1

IP IP, IP , IP ,

3.

2

;

;

;

가

4.

3

5.

3

4

6.

1

()

7.

1 , ,

1

2

8.

(1)

, ;

(2)

9.

8 , (1) ,

IP IP, IP , IP ,

10.

8 9 , (1) ,

;

;

;

, , ,

, 가

11.

10 , ,

12.

10

13.

8

(1)

()

14.

8

(2)

1

2

15.

(a)

;

(b)

IP

IP

IP,

IP

16.

15

(a)

;

;

;

가

17.

16

18.

16

17

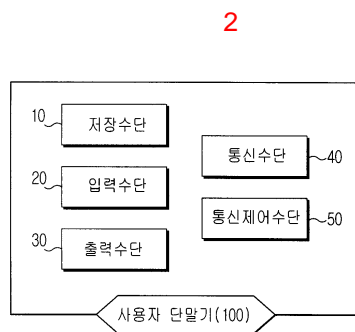
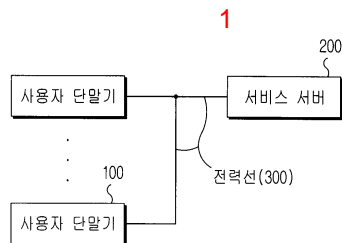
19.

15

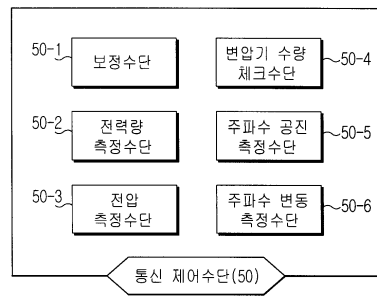
16

(a)

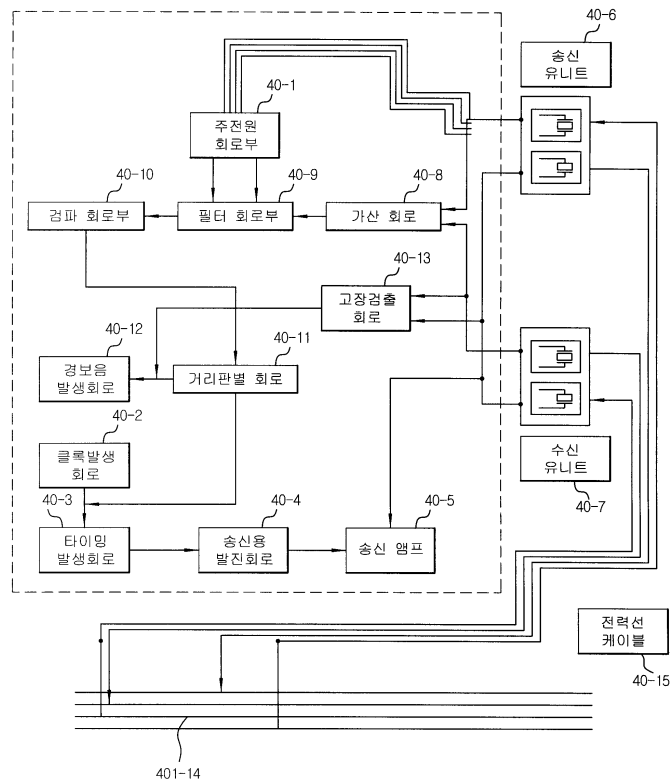
()



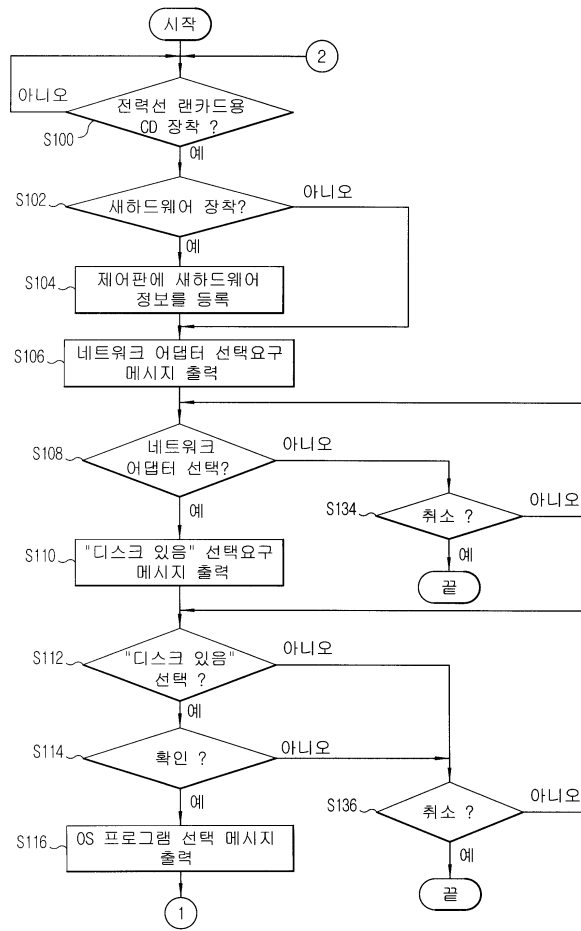
3



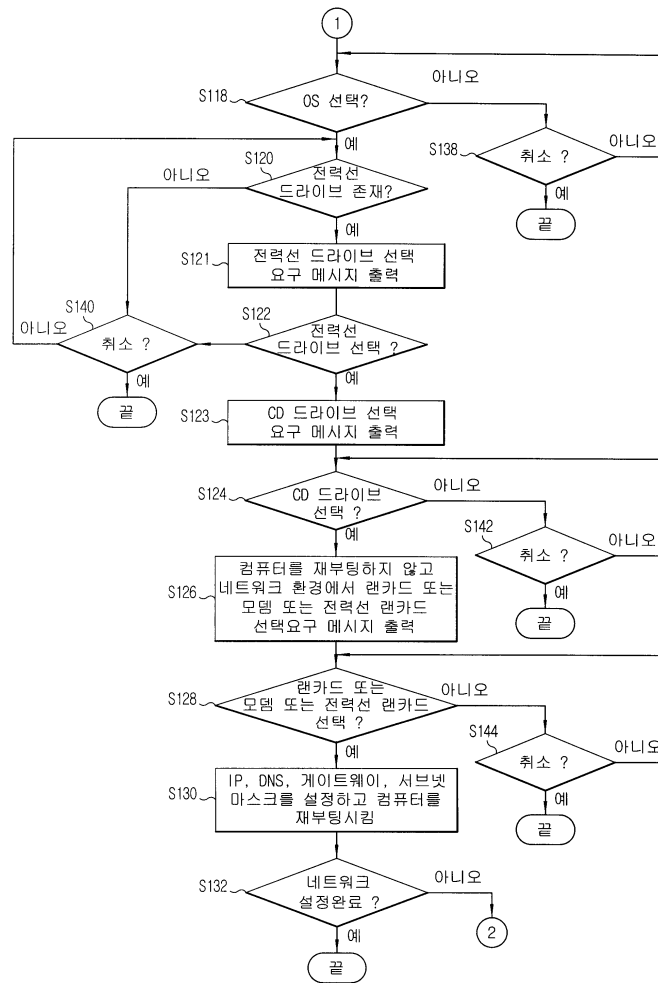
4



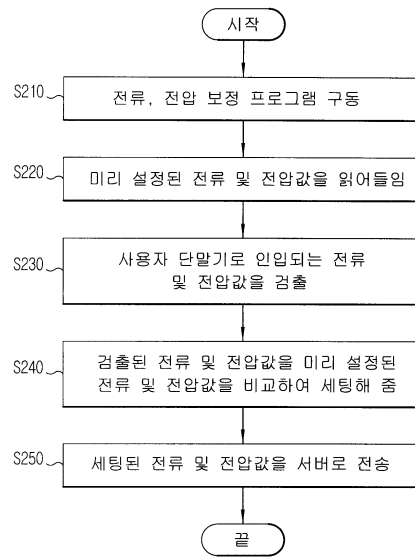
5a



5b



6



7

