

(19)
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10-2005-0001490
2005 01 07

(21) 10-2003-0041669
(22) 2003 06 25

(71) 5 588

(72) 296 105-906

106-309

1 346-82 302

1 98-5B03

5 554-38202

(74)

:

(54)

가

1

, PLC

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

가

PLC

, 3G, 3.5G

가 가

가

가

가

가

가

가

가

가 ,

가

PLC ;

PLC

; PLC

RJ45

AP

A

P

가 , 가 , (a); (a) (b); (c); (d) (c); (b); (a); (c); d); (e) (1 1 (104) (102), (106) (100) 1 (114) 가 , , 가 (102) 가 , 1 (102) 가 가 , (102) (104) (100) (114) (104) (104) (104) (114) (106) PC 가 , PC 가 (Hand Over) 4) (11) 1 (104) 가 , 가 (114) (104) (114)

PLC(Power line Communication)

PLC

3
 3 (300) , (300) 가
 2
 2 (202, 204, 206, 208) (210) (200),
 2 (200) (202, 204, 206, 208)
 1 , 2 (202, 204, 206, 208)가 (200)
 , 2
 2 , 가 2 , 1
 2 , (200) 2 ,
 , (200) (202, 204, 206, 208)
 가 (200) 가
 (202, 204, 206, 208) (200) (210) (202, 204, 206, 208 (200))
 (210) PC 가 PC
 2 , 가
 4 가
 4 , 1 (406) 1 (400) 가 2 (408)

(406, 408, 410)

가

1 가 2 , 2 (402)

가 (400, 402, 404) (Hand Over)
)가 가 가 (Virtual Private Network : VPN) IP

1 2 PLC , PLC

5
5 (512, 514, 516), (510) (506), (510)

5 2 1 , 5

5 PLC (506) (506)

(512, 514, 516)

(506) , (506)

(504)

(506) DHCP(Dynamic Host Configuration Protocol) IP
(512)가 IP (506) IP (500) , IP가 IP . DHCP

, DHCP IP 가 , IP DHCP
IP , IP

5 IP , IP 가 IP . IP
, IP , IP 가 IP

(510) (506) (512, 514, 516) (512, 514, 516)
(510) (506) (512, 514, 516) RJ45
5 가 , 가

VoIP, VOD,

PC,

6

6 Access Point, 610, 612) AP(610, 612) (606), (610), AP((614, 616, 618, 620)

5 , 6

5 가 , 6 1 , 2

6 , (606) , 5 가 , (606) (616, 618, 620, 622) (604)

, (606) DHCP IP ,

6 가 , 5 가 , IP 가 IP

(610) AP(612, 614) , (606) 가 AP (606) ,

6 , AP(612, 614) (616, 618, 620, 622) . 6

2 AP가 가 AP 가 , 가

AP가 .

(616, 618, 620, 622) AP(612, 614) . AP(6

12, 614)

7

7 1 2 ,

7 (704) , (700), PLC (702)

(700) PLC (702) , PLC (7 LAN(Loca Area Net

02) work) , LAN

(704)

, 가

PLC (706) . PLC (706) , 60Hz

Ghz 가

8 PLC

PLC (PCI) (IEEE 1394, USB 2.0)
 가 .

8 PLC (800), (802)
 0) (804) / (812) , (800) (806), / (808), / (816)
 (800) (806) / (808) / (810)

/ (808)
 / (810) (802)

/ (812) 60Hz 가

(802) , (814) PLC 가
 (804)

(816) PLC 가 (804) (Bypass)
 (800)

(804) PLC , (802)
 (802)

8 PLC , PLC

9

9 1 , 9

9 (S900).

(S902).

PLC (S904).

가 (S906).

8). PLC (S90

(S910).

(S912).

가 가 , (S914). 가

RJ45 , AP

10

10 2

10

10
LAN

(S1000). 9 가

(S1002).

가

(S1004).

가

가

(S1006),

PLC

(S1008).

(S1010

).

(S1012).

PLC

(S1014),

(S1016).

가

(S1018).

(57)

1.

가

2.

1

PLC ;

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3.

2

PLC

PLC

4.

1

5.

4

RJ45

6.

4

AP

AP

7.

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PLC ;
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PLC

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PLC
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11.

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12.

11 ,

RJ45

11 **13.** ,

AP

AP

8 **14.** ,

VPN(Virtual Private Network),

IP

8 **15.** ,

16.

(a);

(a)

(b);

(c);

(d)

16 **17.** ,

16 **18.** ,

16 **19.** ,

20.

(a);

(b);

(c);

(d);

(e)

21.

20

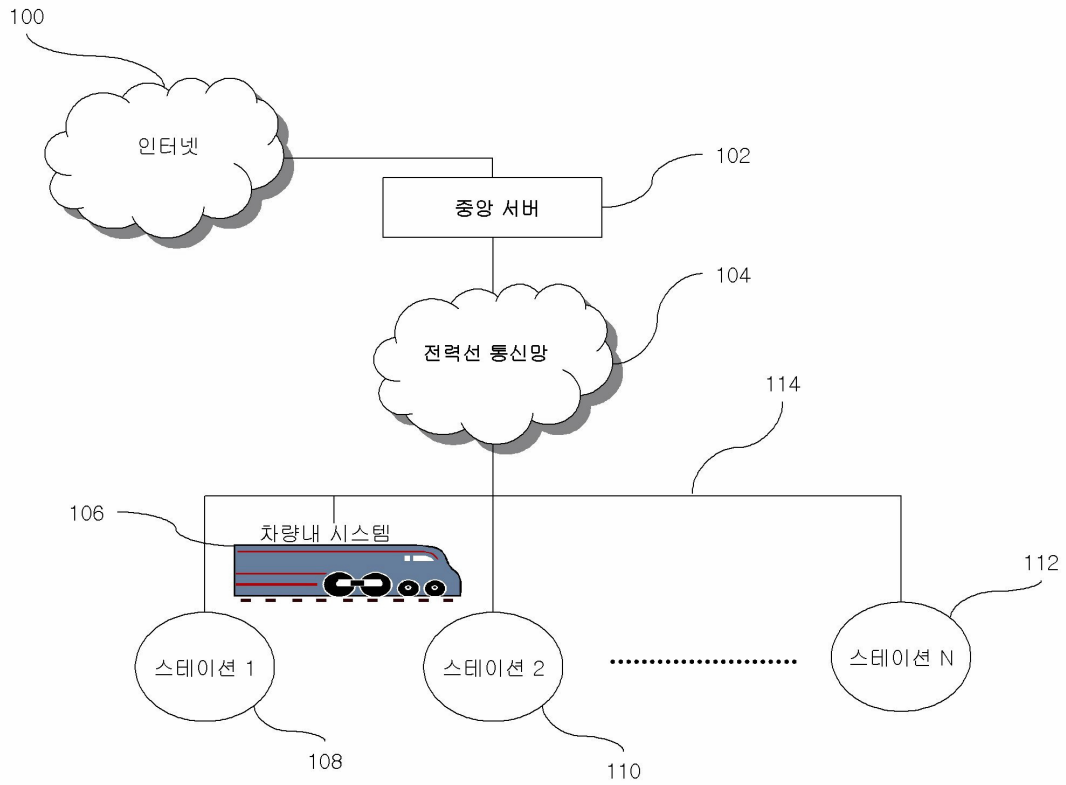
22.

20

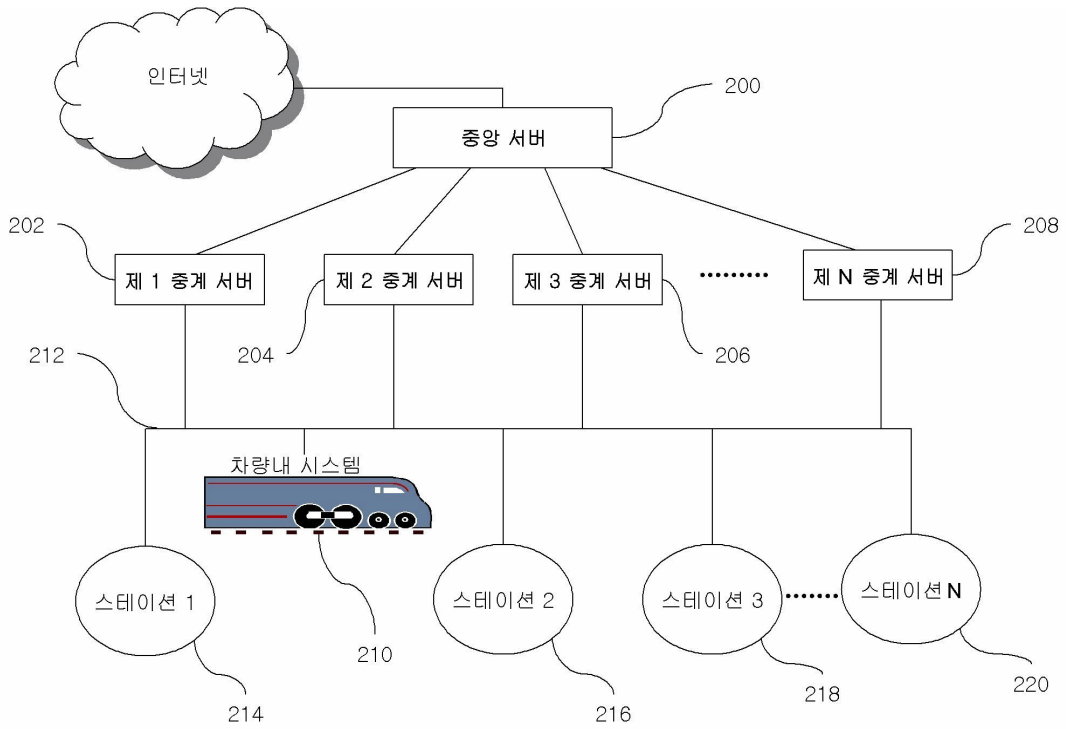
23.

20

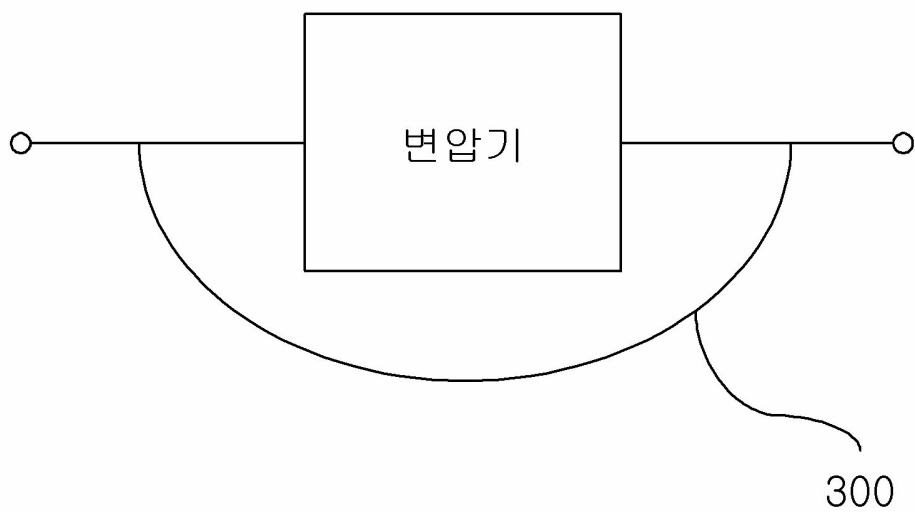
1



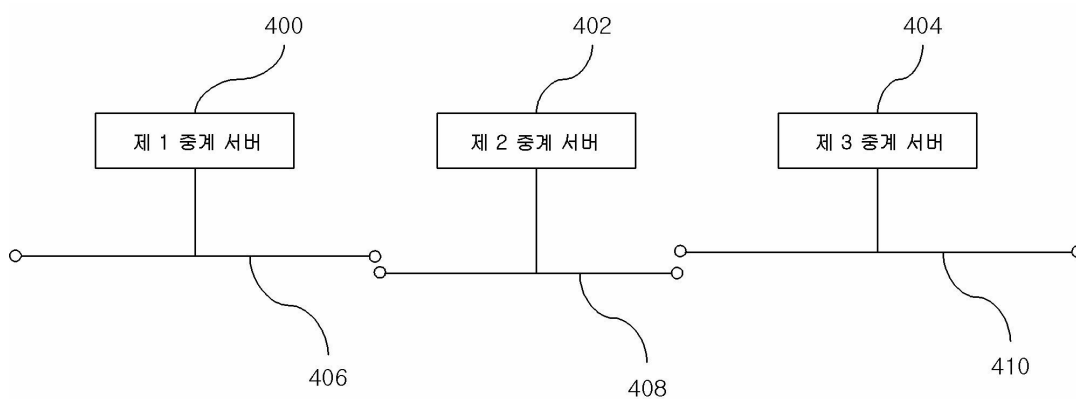
2



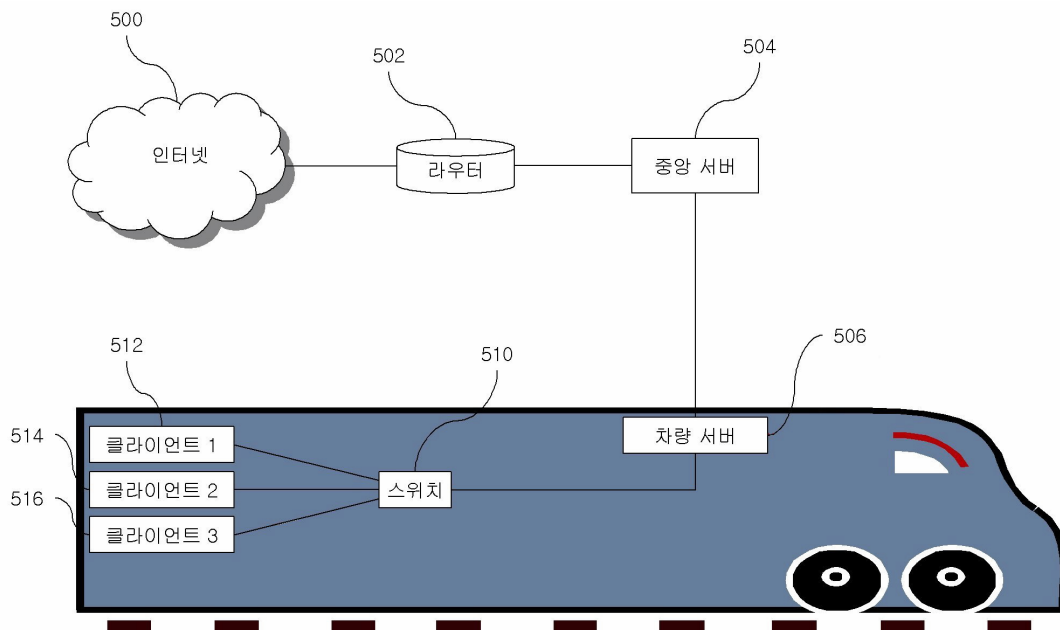
3



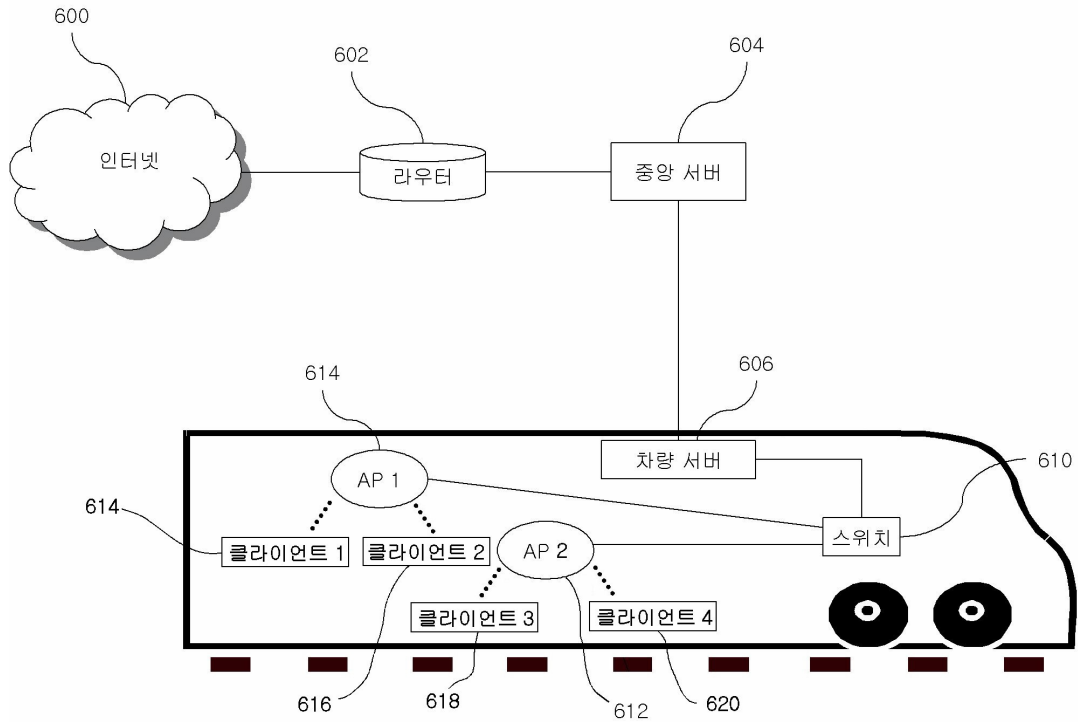
4



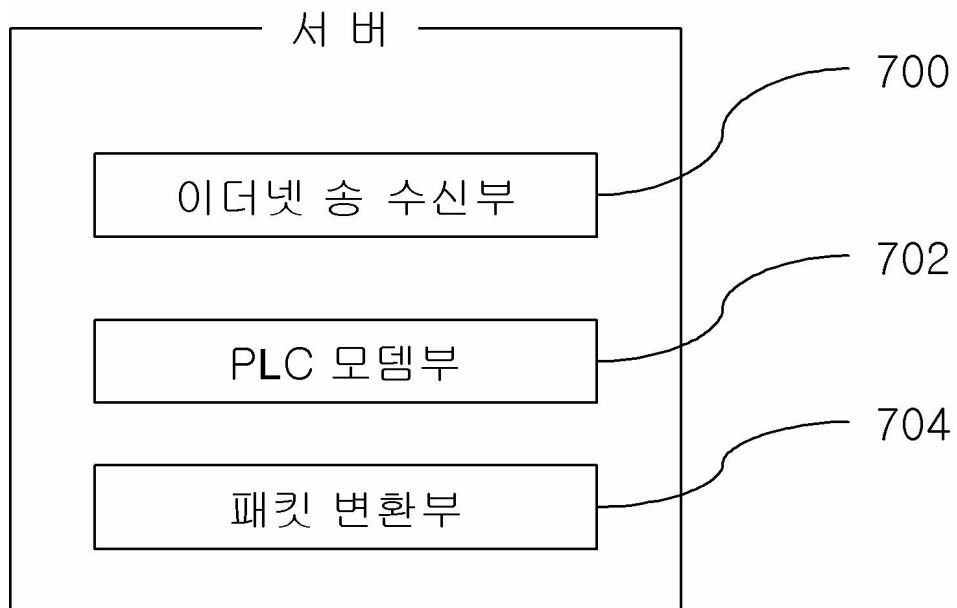
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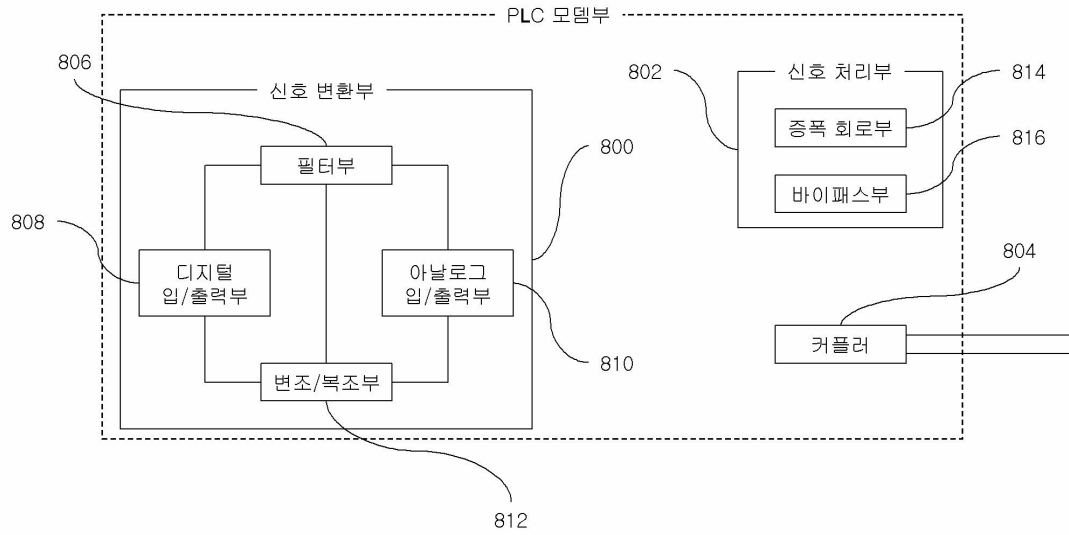
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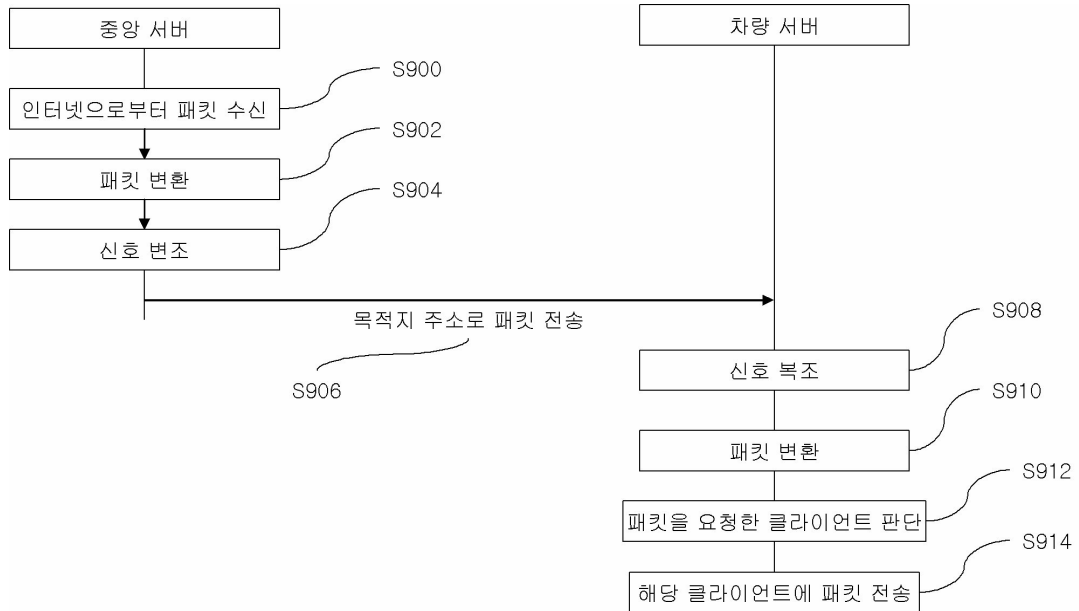
7



8



9



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