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(71) ()
1422-9 302

(72) 3 767 ()103-1101

(74)

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(54)

CPU

2

4

1

2

3 ,
 4 ,
 5 ,
 6 ,
 7a 7d ,
 8 .
 *

100: 200:
 200-1,200-4: 300-1,300-8:
 201~204: 400:
 110: 120: CPU
 130: 140:
 150-1~150-8: 160:
 210: 220:
 230:

(ON-LINE)

(OFF-LINE)

가

가 , 가

가

(16), (18), (18), 8 (11), (12), (10) 2 (13), 8 (15-1~15-8),
 (LSU: 19-1~19-8),
 2 3 (10)
 가

(20-1~20-4) 4
(30-1~30-8) 2

(10)
4가 8가

가 , 가

/ ;
;

CPU

가

가

가

1
(30)

(20)

(40)가

(10)

(20,30)

(40)

(10)

(40)

(50)

(50)

4

4

(200-1,200-4)
(100)

(200)
(100)가

(300-1,300-8)
(L1,L2)

(200)
(400)
(200-1,200-4, 300-1,300-8) 2가

(100)

(L1

,L2)

(400)

(L1,L2)

2가

(L1,L2)

가

(100)

5
CPU

(120),
(40)

가

(110)
(Man Machine Inter
(150-1~150-

face)
8),

, GPS
(160),
(150-1~150-8)

가

(140),
(400)

(140) GPS

5, CPU (200) (120) CPU (110) CPU (400) 가 CPU (120) 가 Vcc
 (200) 가 (200) CPU (120) 가
 (130) 가 (150-1~150-8) (40) 가
 CPU (120) (140) 가
 (L1,L2) 가 CPU (400) CPU (120)가
 CPU (120) (400)
 (100) CPU (LSU)가
 가
 4)가 (200) 6 (Load switch: 210) (201~20)
 가 (220), (100)
 (400) (220) (210)
 (100) (230),
 6 (400) (L1,L2) (100) 가
 (L1,L2) (230) (100)
 (220) 가
 (230) (210)
 (230) (400) (100) (100)
 (210) (210)
 220) 가 (100) (100)
 (100) (400) (100)
 7a 7d
 (100) (200) 가 (400)
 (100)가 (200)가 (CONT Ack), (CONT data) ,
 (REQ data) 가 (RES statu)
 s)
 (100) (CONT data) 7a (6) (SYNC) , 1
 (ID), 1 (Add), 1 (CMD), 4 (Cont D
 ata), 1 (CRC) , 4 (SYNC)
 , 0xAA 0xFF 4
 . 1 (ID)
 FF . 1 가 (Add) (LSU) ID (0~0x
) '0xFF' (broadcasting)

1 (Add) (Local Add)
 .1 (CMD) LSU ,

[1]

0x00	
0x10	LSU
0x20	
0x30	
0x40	
0x50	
0x60	
0x70	
0x80	
0x90	

4 (Cont Data) LSU
 , LSU (CMD 0x10) / , '1'
 (blinking) '0' (duty) (blinking) , '1'
 , 10 msec 2.5 sec
 100% , '0x09' 90% , '0x05' 50% 가 '0x0a'
 D 0x20) , (CMD) (CM
 , '1' , '0'
 10% , (Reserve
 d)
 (100) (REQ data) 7b , 6 (SYNC) ,
 1 (ID), 1 (Add), 1 (CMD), 1 (CRC)
 (200) (CONT Ack) 7c , 6
 4 (SYNC) , 1 (ID), 1 (Add), 1 (CMD),
 (Cont Data), 1 (CRC)
 (200) (REQ Data) (RES status) 7d , 6
 (SYNC) , 1 (ID), 1 (Add), 4
 (LDU Status), 1 (CRC)
 8
 8 (100) 가 7b (REQ d
 ata) (200) (400) (801,802).
 (200) (400) (Add) (C
 MD) , /
 (1000) (803~805). (RES status)

(100) (200) (806~808).
 가 , ,
 (809~812). 7a (813).
 (400) (L1,L2)
 (Add) (L1,L2) (200) (SYNC)가
 (CONT data) (CONT Ack) (CMD)
 7d (814~817). (100)
 (818).

2 , 가 , 가 가 .

(57)

1.

; / ;

2.

1 , , ,

CPU

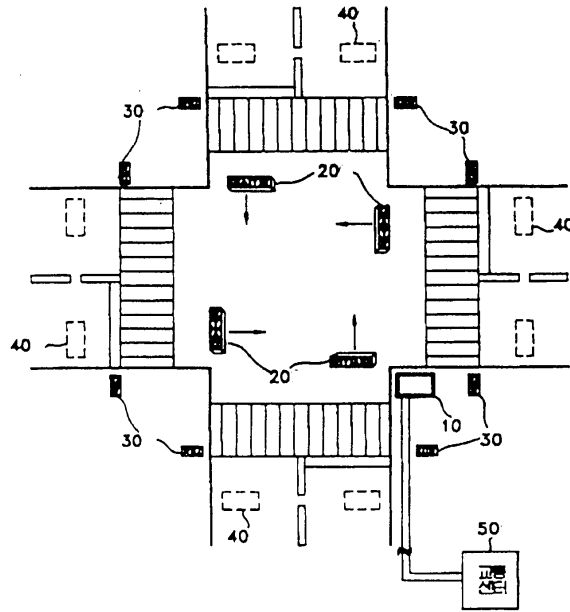
3.

2 , CPU

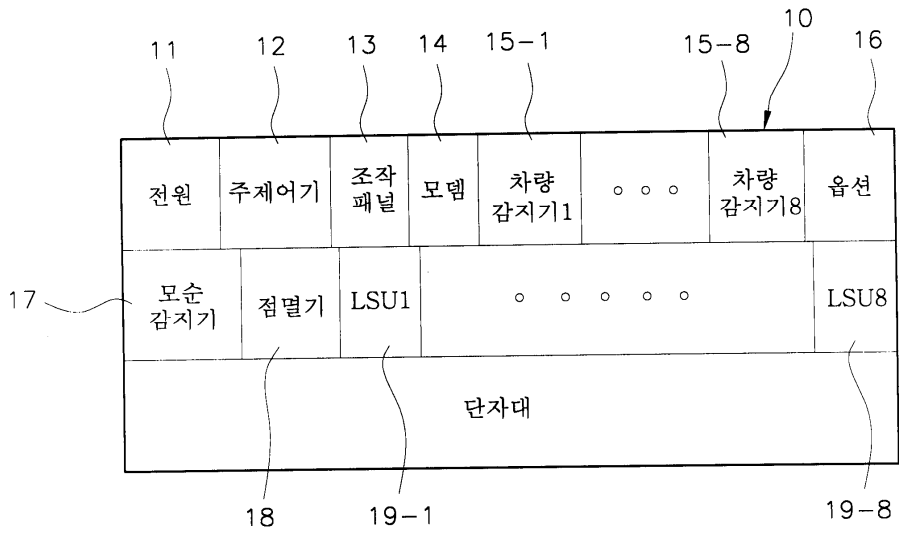
4.

1 , , 가 , 가 ,

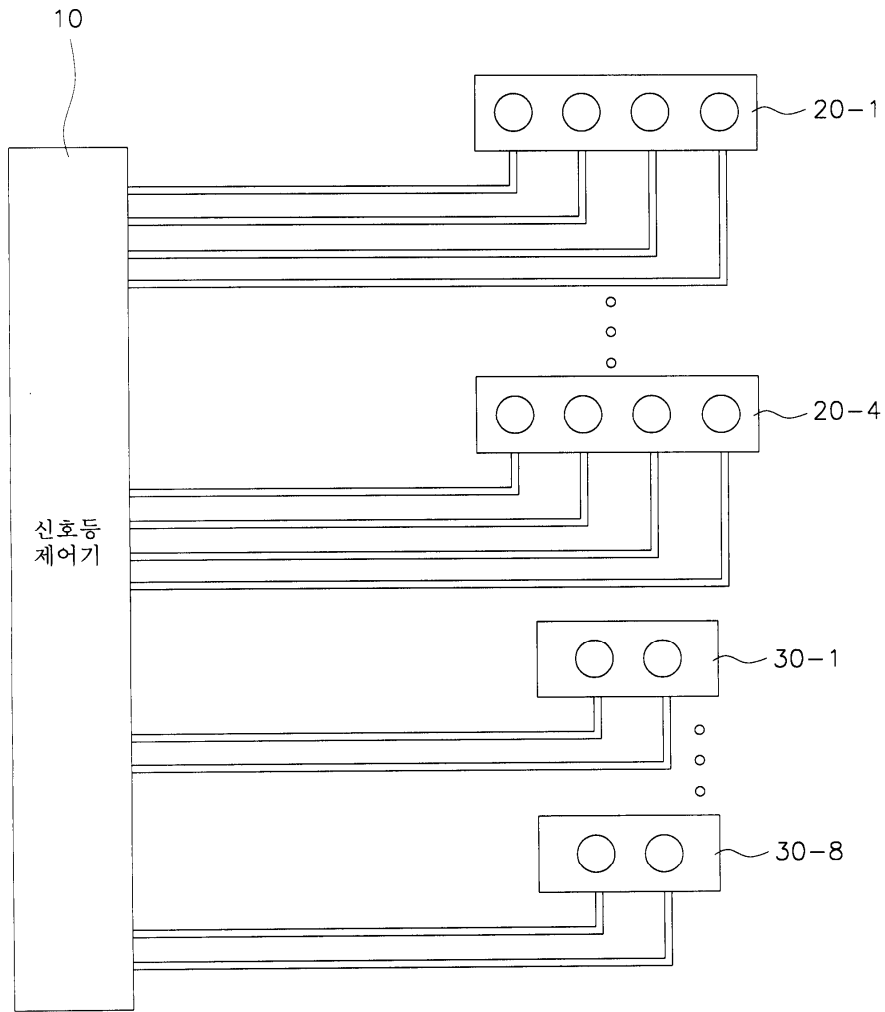
1



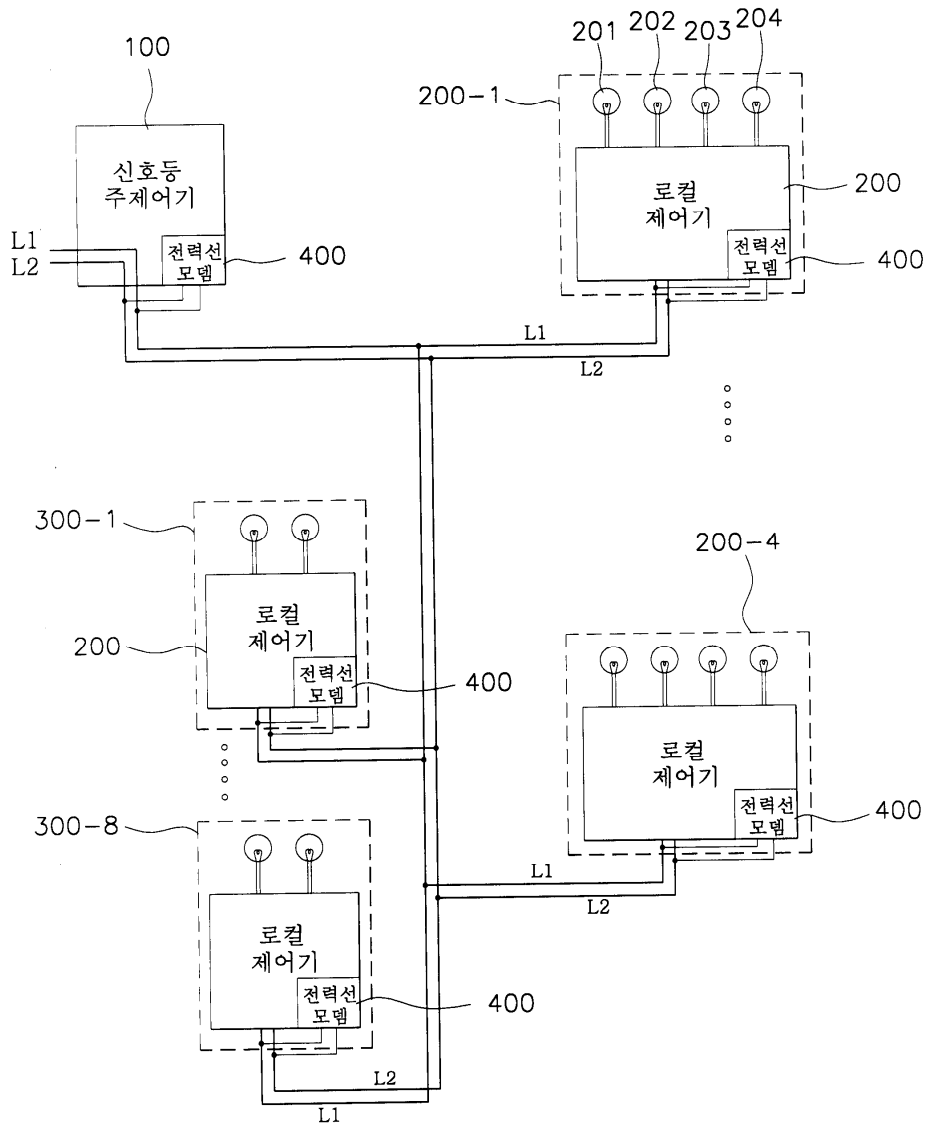
2

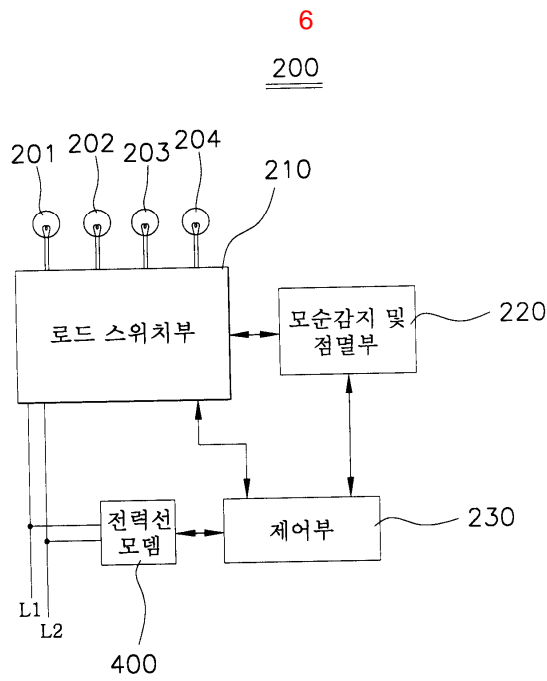
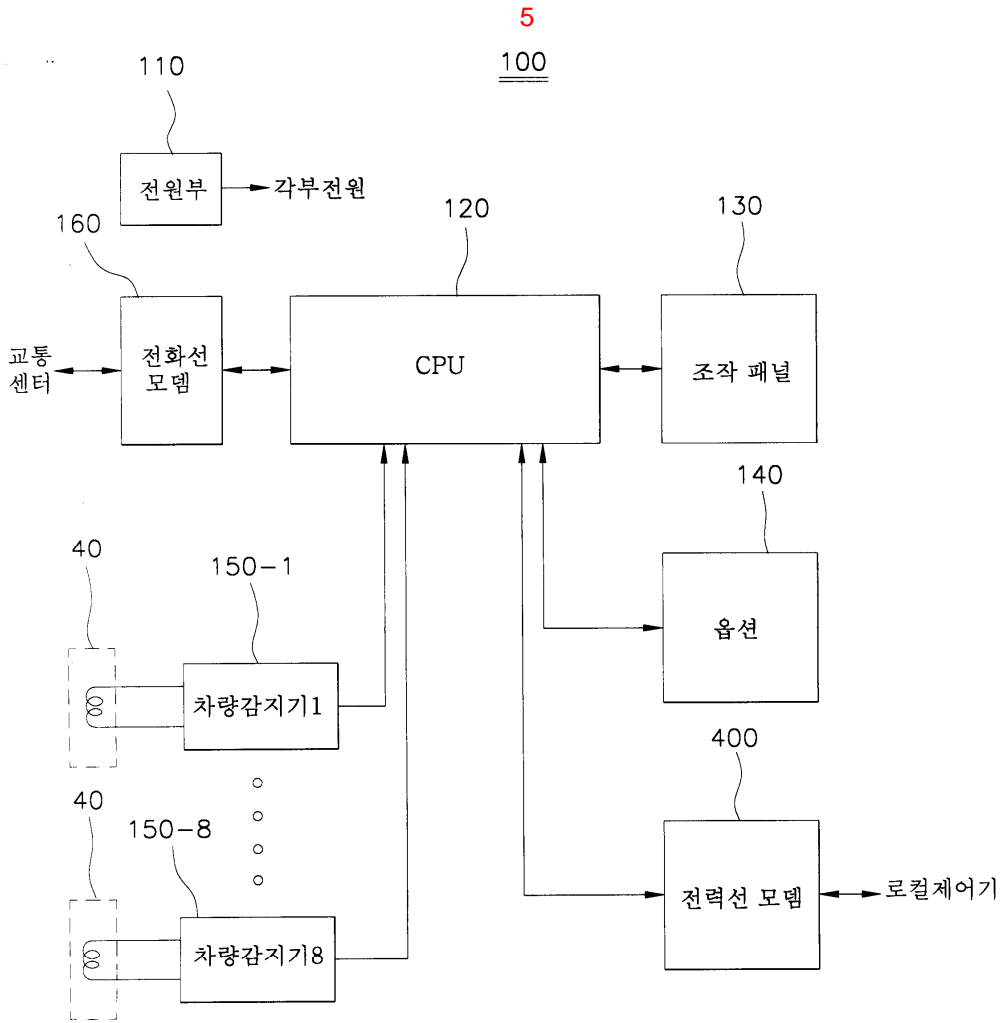


3



4





7a

SYNC	ID	ADD	CMD	Cont	CRC
(6B)	(1B)	(1B)	(1B)	(4B)	(1B)

7b

SYNC (6B)	ID (1B)	ADD (1B)	CMD (1B)	CRC (1B)
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7c

SYNC (6B)	ID (1B)	ADD (1B)	수신 CMD (1B)	수신 Cont Data (4B)	CRC (1B)
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7d

SYNC (6B)	ID (1B)	ADD (1B)	LDU Status (4B)	CRC (1B)
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