

2

3

4

5

6

* *

10 : 11 :

20 : 21 :

30 : 100 : (Cable-veyor)

200 : 300 :

400 : 510 : X

520 : Z 530 : (Carriage)

540 : (Loader Head) 600 :

2001-0039835

2002-0011639

(Gantry Loader),

(Pick and Place)

(PLC; Power Line Communication)

60 Hz

(media)

(carrier)

가

가

(PLC)
(Building Automation),

(AMR; Automatic Meter Reading),
(FA; Factory Automation)

(PLC)

(HA; Home Automation),

2001-0039835

2002-0011639

2 (320), (320) (310), (320)
 (330), (330) (350), (310), (330)
 (350) (340)
 2001-0039835 2002-0011639 .

(Gantry Loader), (Pick and Place)
 가 가

가 가
 (cable-veyor) .

가 (Input) (Output) 가
 가 , 가
 (cable-veyor) 가 가

Place) (Gantry Loader), (Pick and
 가
 (noise)

2001-0039835 2002-0011639

가

2 3 (Gantry Loader),
 (Pick and Place) (Loader Frame) 가
 (Carriage) 가
 (Loader Head) (Loader Chuck)

3 (11)
 (21) .

(21) (11) (10)
 (30) (20) .

(100)

가

(cable-veyor)

가

가 가

가

가

가

4

가

(200)

(300)가
(30)

가

(300')가

(400)가

, SPI(Serial-Parallel Interface), I2C CAN(Control Area Network)

(300)

(400)

(가

600)

5

가

X

6

가

Z

5

(530)가 B

C

(302) Z

, X
(301)가

(101)

(102)

(200)

1)

(200)

2

X

(302) Z

(30

(Port Interface)

1

가

and Place)

(Gantry Loader),

(Pick

가

가

가

가

(noise)

가

가

(57)

1.

(300) ;

(400) ;

(600);

가

2.

1 ,

(Gantry Loader),

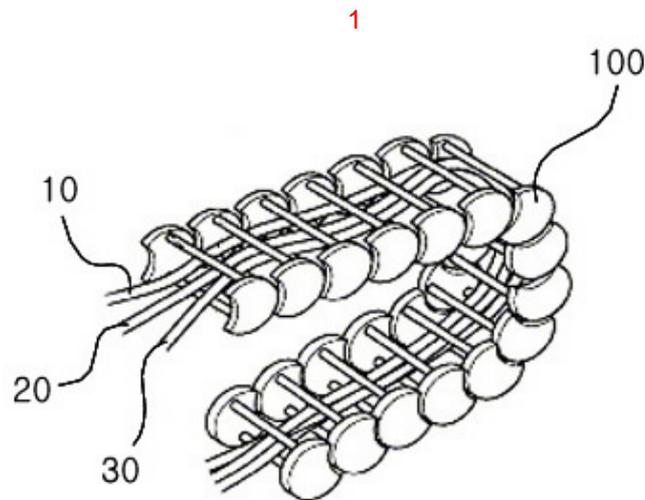
(Pick and Place) , 2

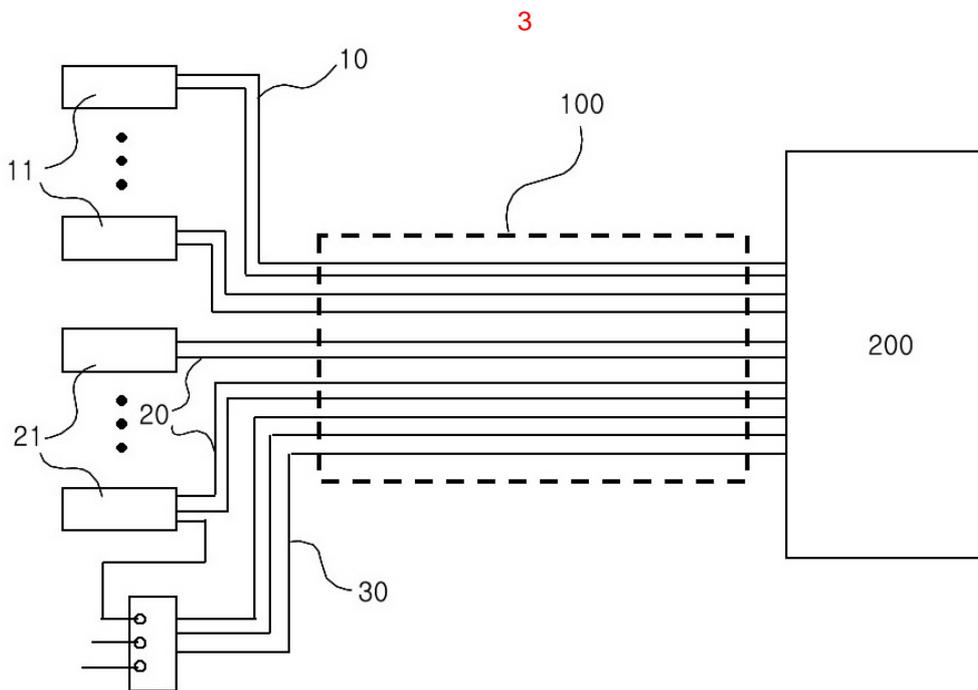
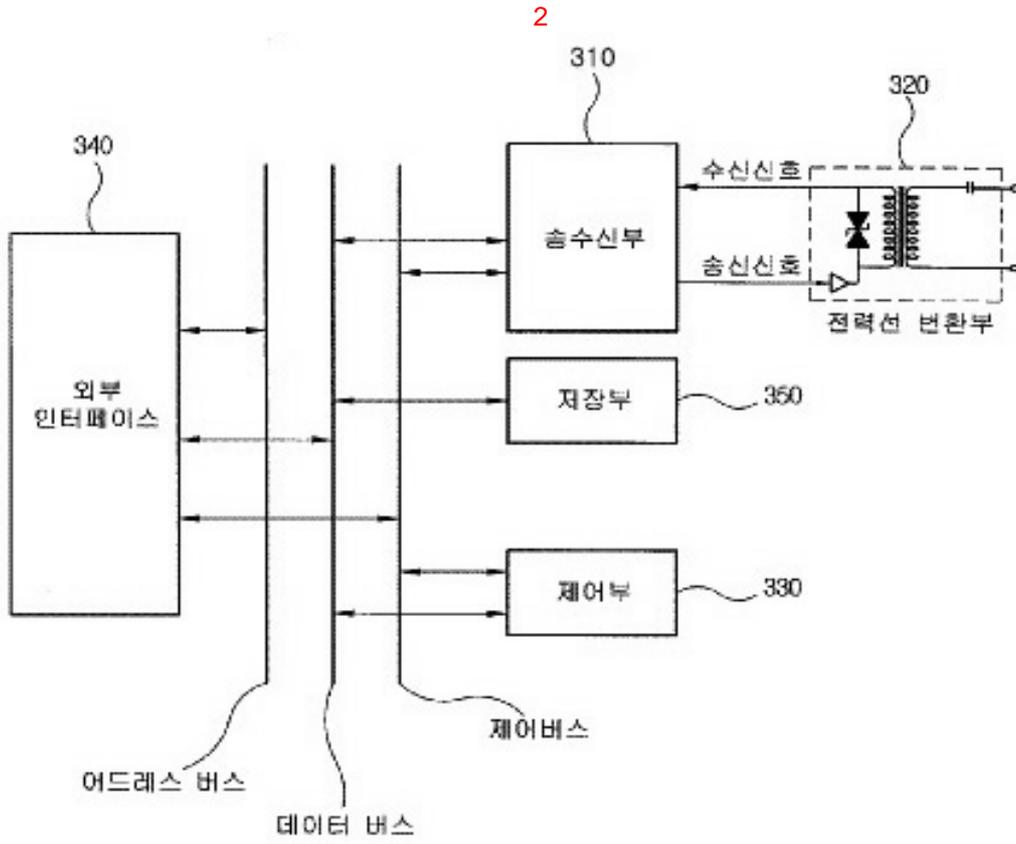
가

3.

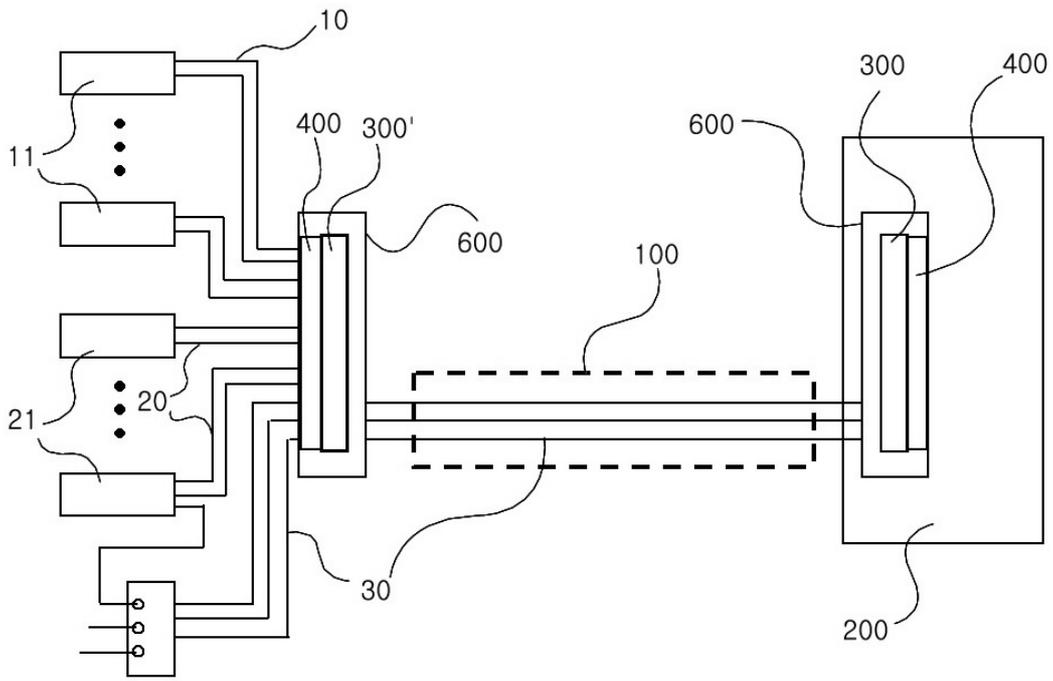
1 ,

RS-232, SPI(Serial-Parallel Interface), I2C CAN(Control Area Network)
가





4



5

