

3
4
5
6
7
8
9
10
11
12
13
<
10 :
17 :
18 :
30 :
36a~36j :
43 :
45 :
48 :
51 :
57 :
60 :
70 :
72 :
90 :

18

>

15 :

19 :

35 :

1~ 10

37 : 가

44 : 1

47 : 1

50 :

55 :

58 :

65 :

71 :

72a :

100 : PLC amp; PCB

1~ 10

(淨水)

가

(, ' ')

(: PET Bottle)

가

가 가

가

가
가

가

가
가

가

18.98 (5gallons)

(, ' ')

가

가

()

가

가

가

2002-7000

659 (: 2002. 01. 16,

:)가

가

가

가

가 18.98 (5gallons)

가

가

가

가

가

가

가

, 200Mℓ 2.0

가 , 1~ 10 2 , 3
1 1 9

1 2 ;

가

,가

가

가

가 가

가

가

1 가 ;

2 가 ;

3 가 180° ;

4 가 ;

5

1

1

1 2 ; 6 2

7 가 ;

8 ;

9 가 ;

10 가 .

1 , 2 , 200Mℓ 2.0 (10) (10)

(PET) (10) , (PET) (30)

가 (PET) (30) , (50), (PET) (30) (5)

0) (10) (90) (30) (PET) (50) (70) , (70)

3 (10) (12) , (15) (17) (17) (17) (17) (17)

0) (12) (PET) (15) , (12) , (15) (17) (17)

(17) (17) (17) (19) , 4 (18) (19) (17)

(18a) , 4 (18) (12) (13) (15) (17a)

(17) (17) (17) (19) (17a)

가 , (20) (20a) (21) 가 (, ' / (20)

(14) (22) (22a) , / (22) (12) (11)

(12) 가 (11) (On/Off) (22, 11)

가 , 가 (12b) 가 (12) (PET) 가 (12b)

(PET) (PET) (12)

ET) (12) 가 (12c)가 ((PET)) (P

(15) (15) (15)

(15a) (15b)가 .

(30)

4 (10 2) 5 6
 (Gripper)
 (Index Turn Table)(35) (33) (35) (33) (36°)
 (35) 1~ 10 (Gripper)(36a~36j) (35)
 가 (37) (2) (36c)
 1 2 (39) (44, 45)(2) 14 3 (36c)
 (36a) (43) 13 18 (36c)
 1 (40a) 3 (36e)
 3 (40e) 8 2 (36h) 4 (40h)
 9 (36i) 5 (40i) 1 (36a)
 9 (36i) 1 2 (47, 48)(5)
 35) 가 (33) (39) (33) (39) (37) (37) (39) (31) (3)
 가 (37) (33) 가 (37) (32) (31) (32)가 1 (35)
 3) (31) (32) 36° (32)가 1 (35)
) {360°/10()}
 (31) (33) (35) 36° 가 (37)
 (33) 가 (37) () (33) (35) () 가 (37)
 , 가 (37)
 , 가 (37b)
 3 (36c) (37a) 가 (37b)
 (36a~36j) (35) (35a) 180° 1~ 10 (36a)
 1 (36a) (38a) (38b) (38b) (38b)
 (38c) (38d) (38d) (38e) (38e) (38f) (38f)
 (38d) (38e) (38e) (38f) (38g) 가 (38h) (38h)
 가 (38h) (38g) 가 (37) 가 (37a) 가 (37b) (38j) (38j)
 8i) 가 (38h) 가 (38f) 가 (38j) 가 (38j) 가 (38j) 가 (38j)
 가 (38h) 가 (38j) 가 (38h) 가 (38j)
 (38k)
 40a) 1 (36a) (38a) (38b) (38b)
 (1 2 (47, 48) 가 가) (38b)
 가 (40a) () (38b) (38c)
)가 (PET)
 (40a) (1 2) 가 가)
 (40a)가 (38b) (PET)
 (38c)가 (PET)

가 (38h) (38i) 가 (37) 가 (37a)
) 가 (37b) , (38g) 가 (38j) ,
 (38f)가 (38d) (38e)가 180° (38b) 180° (38e)
 , 1 2 (44, 45)(2) 5 6 (36e, 36f)
 , 1 2 (44, 45) (44, 45) (90) ()
)가 .
 , (43)(14) 3 (36c)
 (43) (35) (35b) , (43)
) (90) ()가 . (43)
 p; PCB(100) 1 5 (40a~40i) 11 (90) PLC am
 1 2 (47, 48) 가 (37) (35) 가 (37)
 1 (36a) 9 (36i) ,
 , (50) .
 7 , 8
 , (50) (51) (Capping Chuck) , (CAP)
 (55) , (55) (CAP)
 (CAP) (60a) (57) , (57) (CAP)
 (60) , (60) (65) (60a) (60a)가 (58)
 (60) (60) (60a) (65) ()가 , (58)
 , (51) (CAP) (CAP) (55a)가 (C
 AP) (55) (55a) (55a) ()
 CAP) () (55) , (55a)
 (CAP) () (55) , ()
 , 가 (55a) (CAP) () (55a)
 , (CAP) () () (55)
 (55) , (55a) (CAP) () (自重) (51)
 (55) , (51) (CAP) () (CAP)
 (55) (55a) , ' '
 (CAP) (55) , (55) (55)가
 (CAP) (CAP) (55a) (57) .
 (CAP) (57) (CAP) ()가 .
) , (60a)가 (60) (51) ()
 , 7 8 (60a) (65) (65) 8 (36h)
 (65) , (67) , (67) (65) (66)가 ,
 (65) (67) (65) (68a)

(69)가 (68a) (68) (68)
 ()가 (65) (65) (65)

(65) (66) (65) (CAP)
 (65a)가 (65a) (CAP)
 8

(65) 가 (70)

9 (70) 9 (36i) (Robot Arm) (72) 10
 (80) (72) (80) (72)

(72) (80) 가 (75)
 (PET)

(72) (74) (73) (71)
 (74) (75) (71) (73)
 (80) (74) (71)
 (73) (73a) (72) (71) (72)
 (72a)가 ()가

(70) (10) (30) (50)
 (90)

11 (91) 가 (90)
 (92) (Mode) (93) (95)가 (Contr
 of Panel) (Set Switch)(94) PLC(Power Line Communication) am
 PCB(Main Printed Circuit Board)(100) PLC amp; PCB(100)
 (Power Supply)(101) (Relay Unit)(102)

1~ 5 , PLC amp; PCB(100)
 CAP (40a~40i)가 (65) ()
 (72) (60) 가 (72)

(60) (65) (72)

PLC amp; PCB(100) (102) (35)
 (31) , 1 2 (44, 45) ()
) , 1 9 (43) ()
 (55, 57) , 1 2 (47, 48) ,
 (60) (65) (68)
 (69) , (65a) 가 (66) ,

가 (67) ,
(74, 73) ,
(71) , (70) (80) 가
, 가
12 1~ 10
, 1 (36a) 10 (36j)
, 2 (36b) (Idle,) 1 (36a)가 3 (36c)가 180°
6e) 4 (36d) (Idle) , 5 (3
1 (70%) ,
2 8 ((36h) 30%) , 6 (36f)
9 (36i)가 7 (36g) (Idle) ,
10 (36j) (Idle)
11
13 18
, (Main Power)() (On) , 3
(15b) 1 (36a)가 (15) (12) , (14)
/ (22) (12) (12) (PET)
.0 (12) 1 (12) 가 , 200Mℓ 2
, (12) 가 가
, 200Mℓ 2.0
, 가
(12) 가 , (90)
, (95) (On) ,
(12) 가 (14) (11)
(12) 가 (12) 가 (90)
(102) 가
0a)가 (PET)가 1 (36a) (12)가 가 , 1 (36a) 1 (12)
(47) (PET) (90) 1 (36a)가 (36a) 1 (4
ET) .(13) 1 (36a)가 (36a)가 (P
1 (36a)가 (PET) (90) (35)
(31)가 (36j) 1 (36a)가 1 (36a)
) (38i) 가 (37) 가 (35) 1 (36°) , 5 3 (36c)
6) (36c) (37b) , (38d) 180° (38f, 38e)(
, 3 (90) (43) (PET) (43) 2 (40c)

(PET) .(14)

(43) (43) 2002-7000659 (2002-0019537 , :)

1 (43) (PET) 가 , (35) 가
(37a) 3 (36c) (38i) 가 (37) 가 (37b) 3 가
)가 (36d) 가 (38d) 180° ((38f, 38e)(6)) 12 4 (36c)
(36d) 가 (PET) 4 (36d)

(35) 1 (36e) 3 (40e)
(90) 1 (44) 5 (36e) 5 (36e)
(PET) 70% , 1 (90) 1 (PE
5)

1 (35) 1 (90) 2
(45) 6 (36f) (PET) (90) 2
2 2 1 2 가 (90) (PET) 30% ,
(16) (90) 가 2 (45)

le) (CAP) , (35) 1 (35) 1 7 (36g) (Id
ET) (CAP) , 8 (36h) 8 (P

0) (CAP) (55) (65) (57) (58) (6)
(66) (65) (90) (66)가 (6)
(65) 8 (36h) (69) (65) (65a) (CAP) (CAP)
(40h) (66) (65) (68) (PET) (PET) 4 (CAP)
(PET) (67)가 (17) (65) (CAP)

(36i) (PET) (CAP) , (35) 1 , 9
(70) (40i) (72) 9 (36i) (74) (73)가
(71) (72) (72a)가 (PET) (PET)
(80) (72) (80) (80) (PET) (PET)
(80) (80) .(9 10 18)

e,) (35) 1 , 10 (36j) (Idl

(35)

가 , 가 , 200ℓ 2.0 , 18.98 (5gallons) 가 , 가

(57)

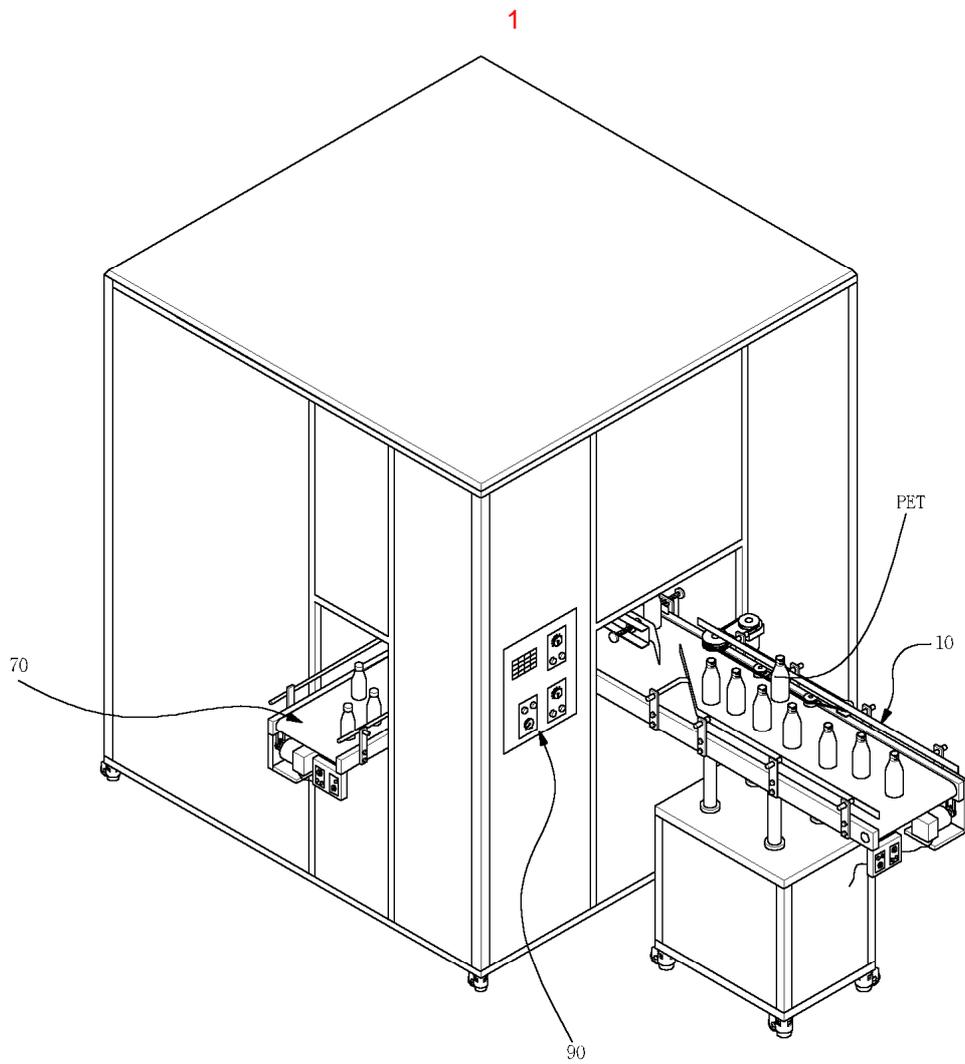
1. (PET) (12) , (15) , (15) (17) , (19) , (17) , (19) , (10) ; (1) 9) (12) (17) (13) (18) (35) , (35) 1~ 10 (36a~3 6j) , (39) (44, 45) , 3 (36c) (35) 가 (37) , (PET) 1 2 (4 7, 48) (43) , 1 (36a) 9 (36i) 1 2 (51) (CAP) (CAP) (58) , (CAP) (PET) (65) (60) , (65) (50) ; (75) (74) , (74) (73) , (73) (72a) (72) , (71) , (75)가 (80) (70) ; (70) (10) (90) (30) (50)

2. 1 , (10) (12) (PET) 가 (12b)가 , 가 (12b) 가 (12a) (PET)가 (PET) (12c)가

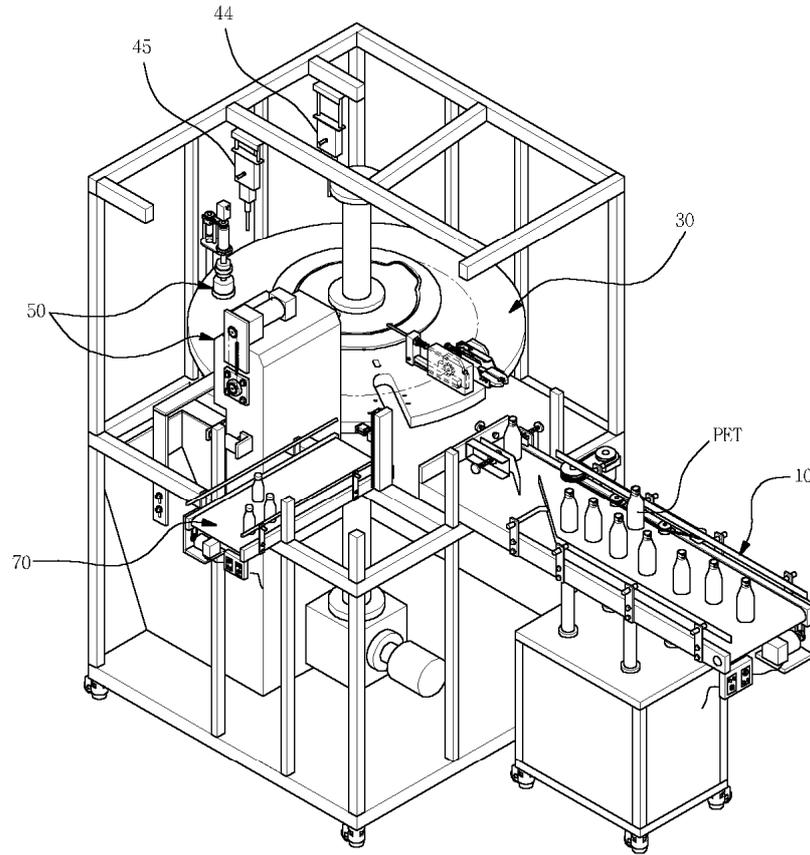
3. 1 , (10) (15) , (15) (15b)가

4. 1 (36a)가 (PET) ; 2 (36b)가 ; 3 (36c)가 180° (PET) ; (PET) (43) ; 4 (36d)가 (PET) ;

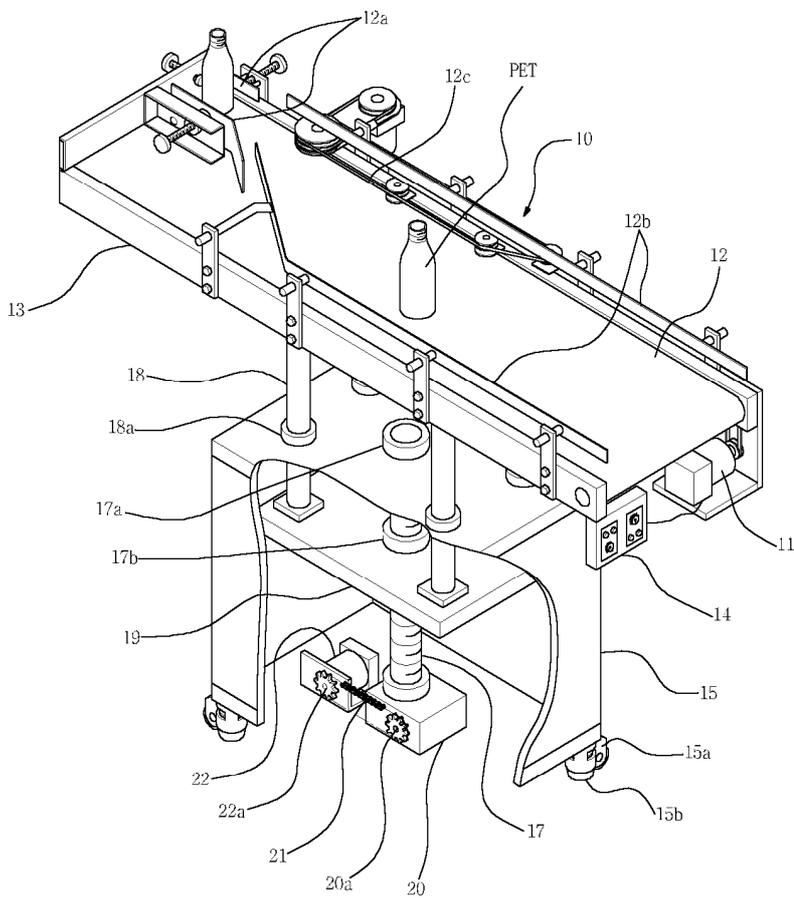
5 (36e) (PET) 1 (44)
 1 ;
 2 1 (45) (PET) 2 (36f) (PET)
 ;
 7 (36g)가 ;
 8 (36h) (PET) (65) (CAP)
 (PET) ;
 9 (36i)가 (PET) (72)
 (PET) (80) ;
 10 (36j)가



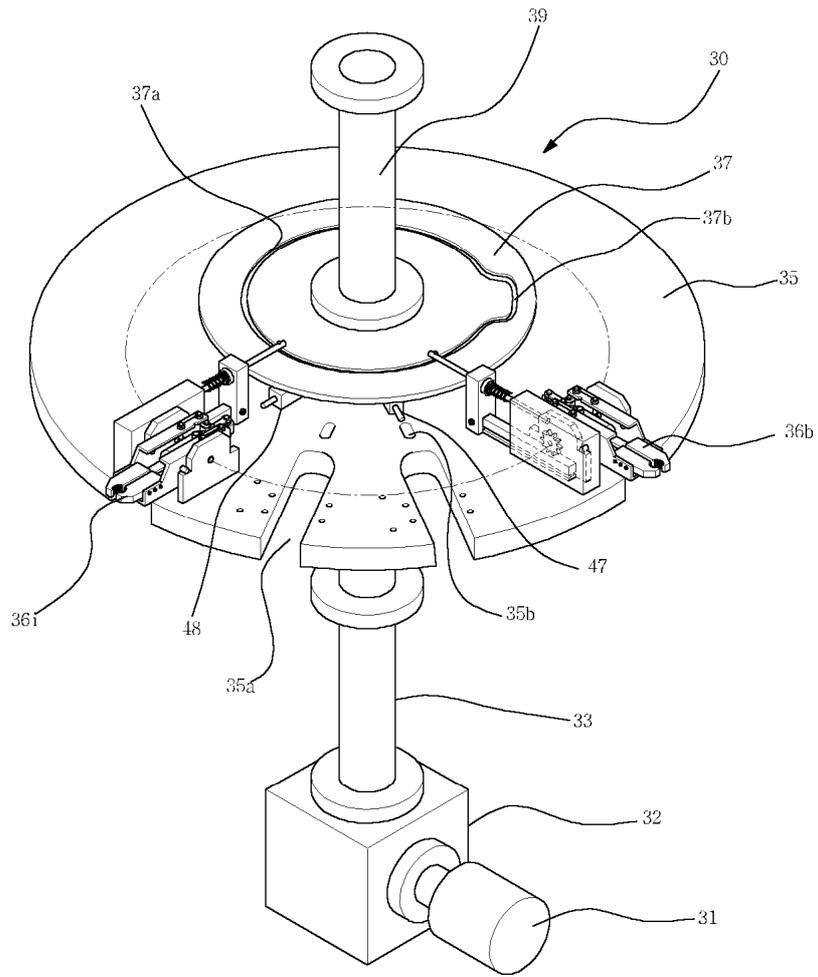
2



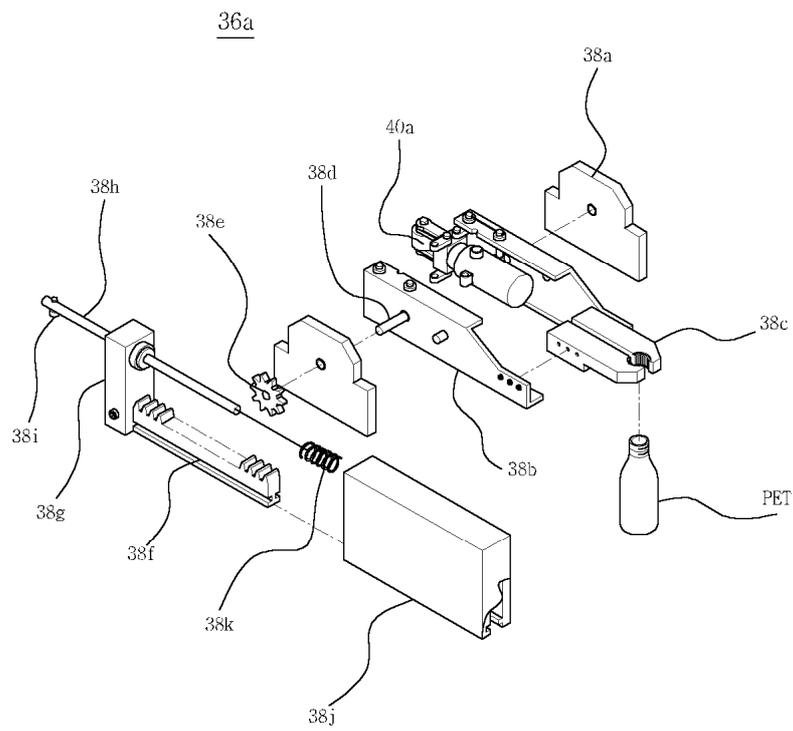
3



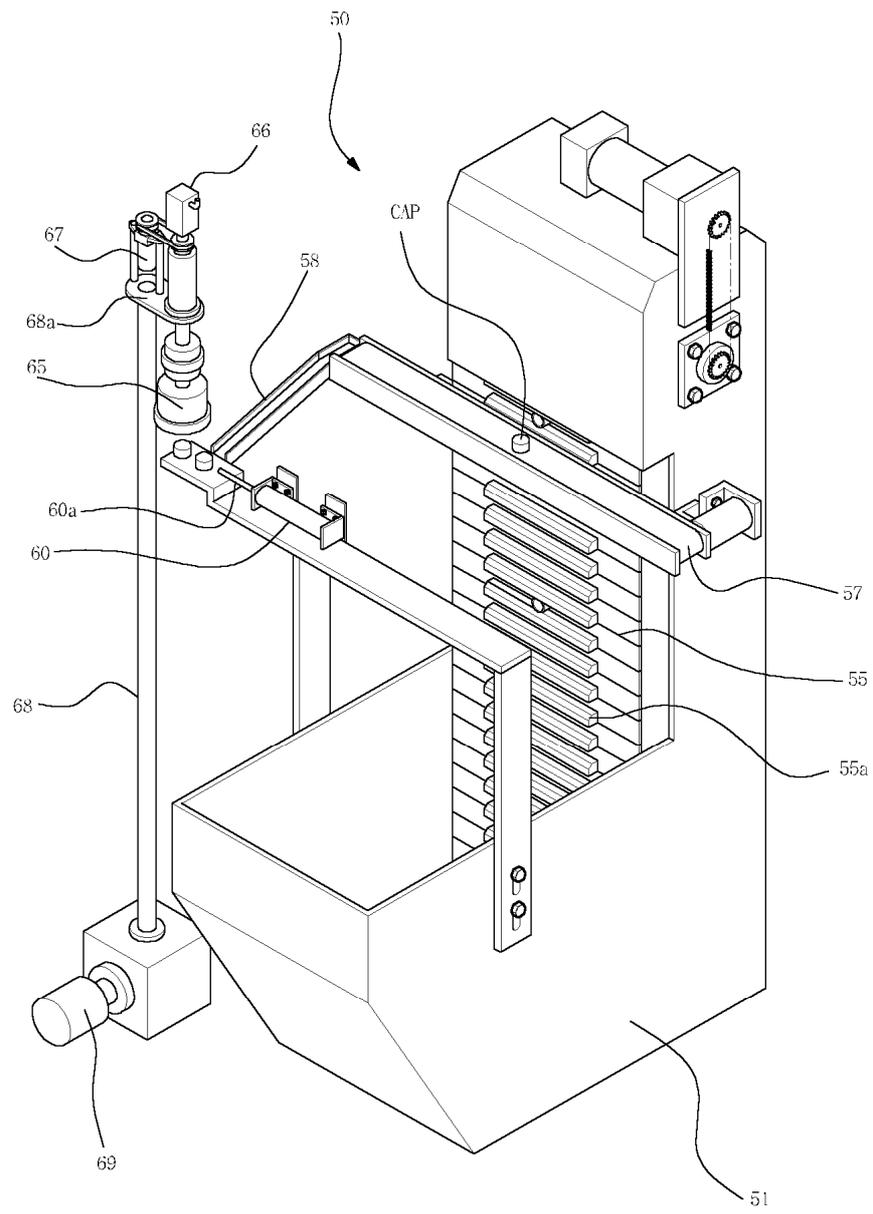
5



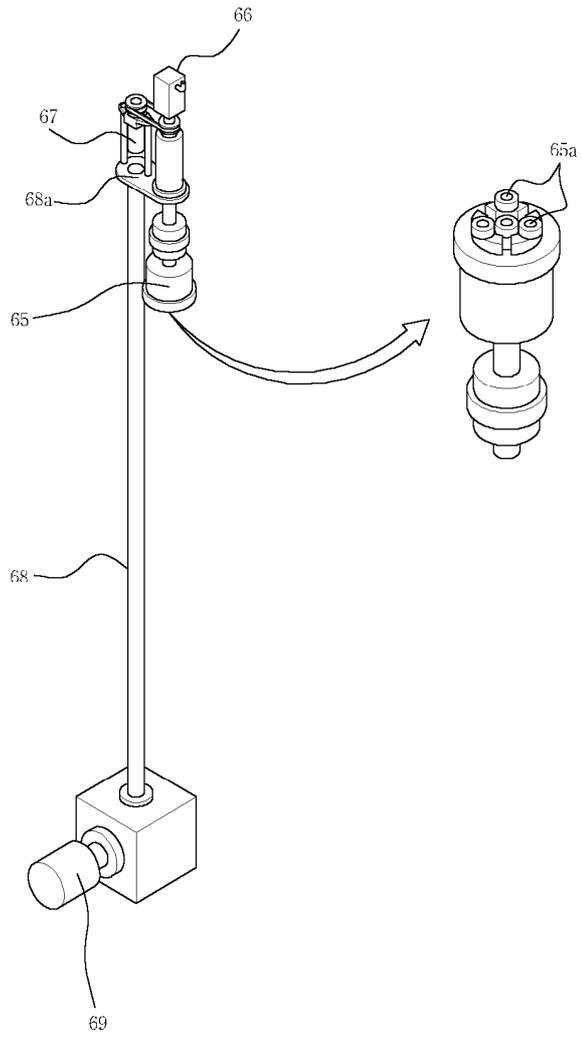
6



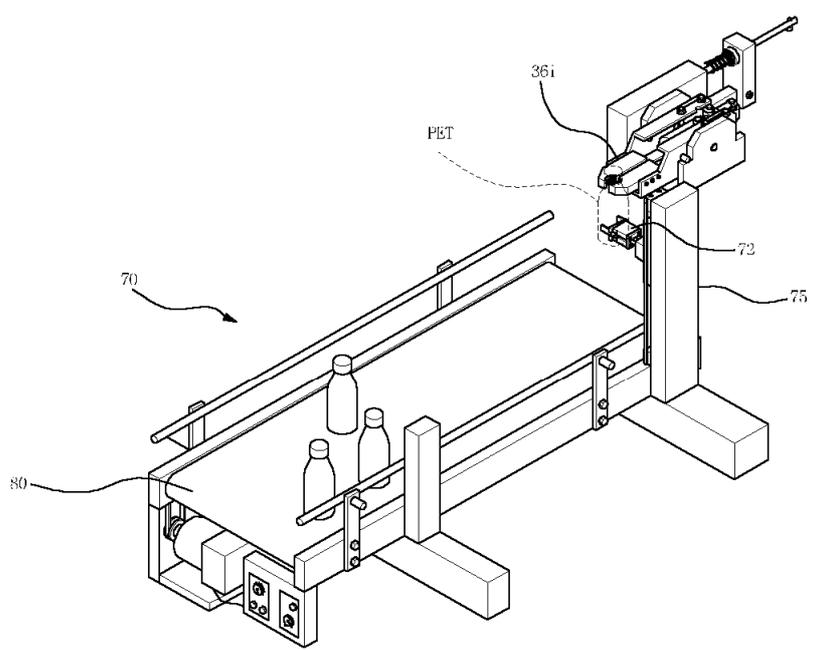
7



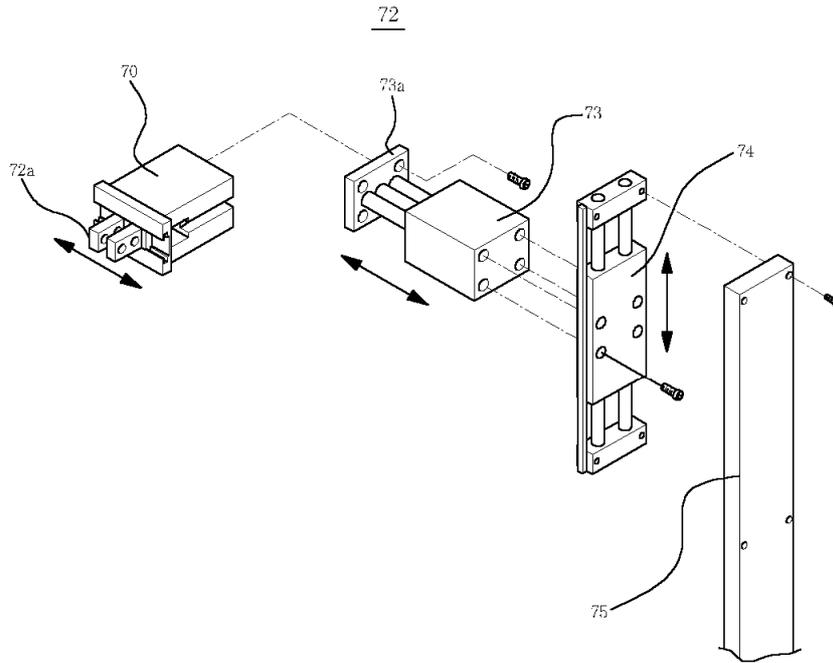
8



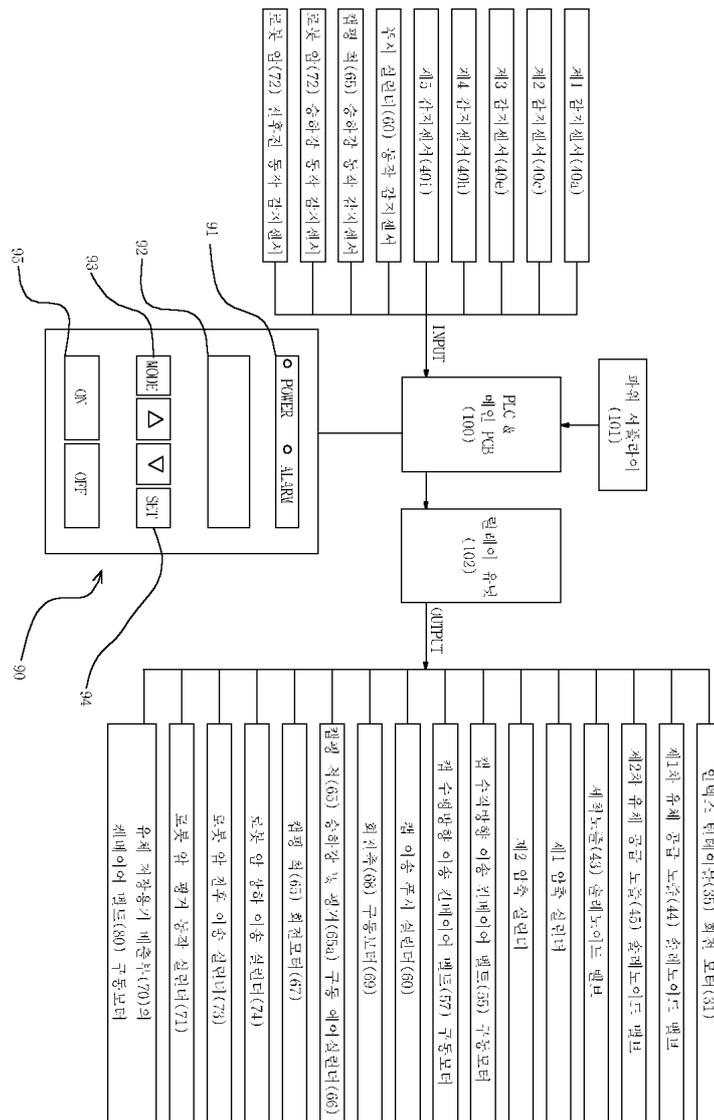
9

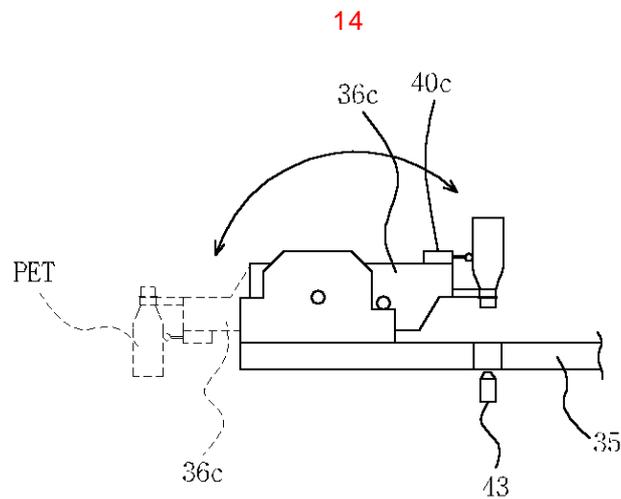
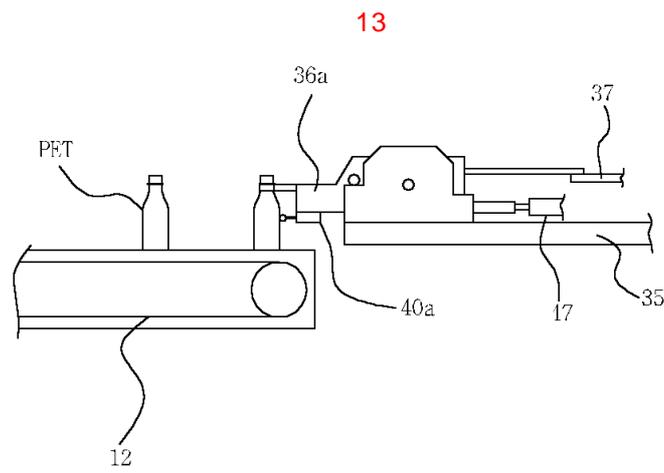
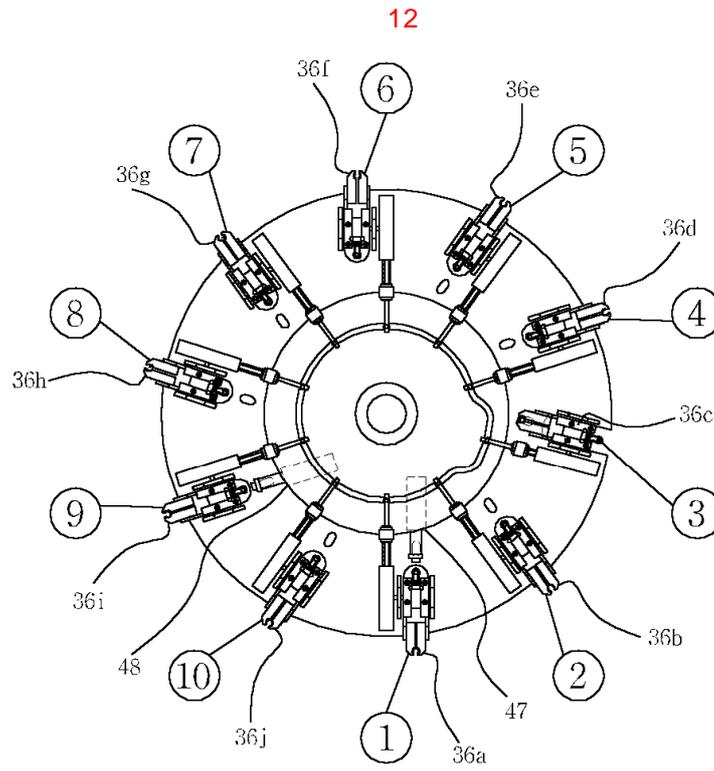


10

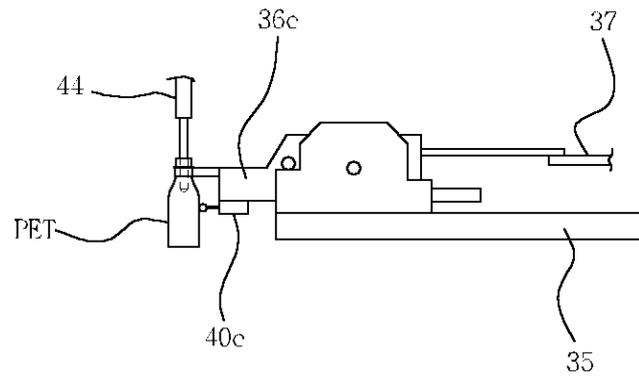


11

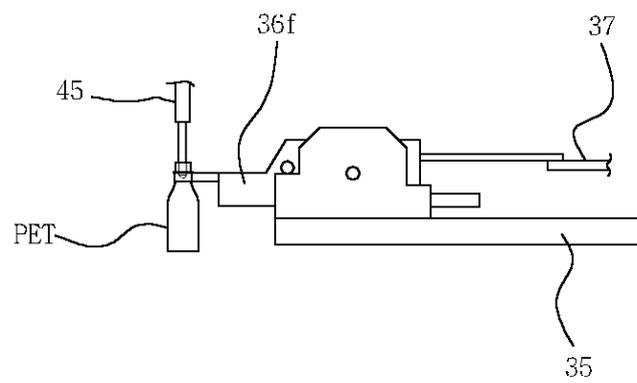




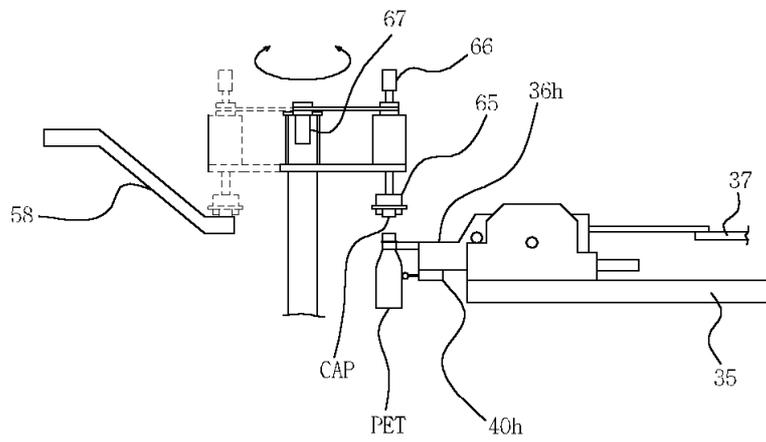
15



16



17



18

