

(19)
(12)

(KR)
(A)

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C01B 13/02

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10-2004-0034358
2004 04 28

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JP-P-2003-00004474 2003 01 10 (JP)
JP-P-2003-00021845 2003 01 30 (JP)
JP-P-2003-00042834 2003 02 20 (JP)

(71) 가 가 가 1006
가 가 가

(72) 가 가 974

가 가 가 가 850

가 가 가 10-1838-149

가 가 1434

가 2416-10-101

가 가 609-3- - -101

(74)

:

(54)

(富化) (2) , (2) 가
(5) , 25% 35%

1 1 ,
2 ,
3 2 ,
4a 4b ,
5 3 ,
6 4 ,
7 ,
8 ,
9 ,
10a 10d , , ,
11 ,
12a 12b , 12a , 12b ,
13 ,
14 ,
15 ,
16 26 5 ,
16 1 ,
17 2 ,
18 3 ,
19 3 ,
20 4 ,
21 5 ,
22 6 ,
23 7 ,
24 8 ,
25 9 ,

26 9 ,
 27 9 ,
 28 6 ,
 29 ,
 30 ,
 31 ,
 32 ,
 33 ,
 34 ,
 35 ,
 36 .



1: 2:

3: 5:

(富化)

가 , 가 ,

가

1998-234836

가

가

(結露)

가

가

가

25% 35%

가

가

가

가

1

1

(1)

가

(2)

(3)

(4),

(3)

(5)

(6)

(7)

(8)가

(3)

(

)

(10)

(2)

(9)

(5)

(1)

(3)

(2)

(4)

가

(2)

가

2

25%

35%

1.

5L

21%

30

2

(2)

(11)

(2a)

(3a)

(2)

가

가

가

(2)

(2a)

(11)

가

가

2 3

3 (12) (2) (3) (13)
 (14) (14) (15) (16)
 (17) (18) (19)
 가 (14) (13)
 가 (20) (14) 가 (3)
 가

4a 4b 2 (16)
 (21) (22) (22) 가
 (17) (33) 가 (b) (34)
 (c) (35) (21)
 가 (33) (36)
 (16)
 가 가

3 5

5 (37) () (38), (39) 3 가
 (38), (40) (4)
 1) (37) (軸) (42) (7) (39) (38) (40)
 (43) (40) (43) (38) (37)
 (44) (d) (38)

Zn Zn ()

()
 가 가
 4

6 15 (51) () “ ”
)(52) (52)
 0%) (2) 가 가 21%(79%)
 30%(7

(52) 11 12 (53)
 (4) (55)
 (54) (53) (54) 가
 (53) 가 (56)
 (52) (54) (短邊側) [(長邊側)
 (51) (51)]
 (51) (51) (57) (51)
 (52) (54) (53) (51) (51)

(58) (59) (52) (60) (53) (58) (59) (59)

(61) (61b) (51) (52) (54)

(53) (62) (51) (61) (54)

(61) (63) (54) (62) (61)

(61) (62) (61)

(62)

(61) 9 (64) (65, 66) (51)

(67), (68) (51)

(71) (69) (61) (61a) (70)

(72) (51) (73) 가 7

(74, 75) (72) (73) (52) (61)

(78) (72) (73) (76, 77)

51) 가 (78) (72) (72) (73) (73) (73)

15 (56) (51) (61) (52) (80) 1 (80)

(61)

(80) 가 HEPA (81)가 HEPA (61) , 0.3

99.7% (10)

가

13 (51) (63)

(83) (82) 가 (62) (82)

(84) (63) (84) (84)

1 (85) (84) (82)

2 (86) (84) 1 (85) , 2 (86)

가

2 (83)

86) 가 가

(82) (87) , (88) , (87) (88)

(89) (83) , (87) (90) 가

(90) (83) 가 가 가 (91) 가

(84) 가 2 (86) , 가 (91) 가

(86) (87) (90) 가

(83) (83) 가 (91) 가 (83)

가 (91)

(84) O 가

(84a) (84b) 2 가 2

가 , (84) 1 (85) (84) 2 가
(86) (92) (93) (84) (84) (92), (93) (84) ,
(82) (83) 14 (83a) (83b)가
가 (94) (95) (96) (96)
("HEPA") (95) HEPA (96)
HEPA (94) (95) 0.3 99.7% 가
(83) (97) (97)가 가 가
(97) (97) 가 가
10 (98) (51) (99) 가
(51) (100) (51) , LED
(60) (98) () (10 , 20 , 30)
(59) (99)가 (61) () (61)가
(52) (59) (1) (57) 가 (52) (52)
가 (61) 가 (52) (53) (83)
(83)
(51) (100) 가 가
가 (98) (59)
(100) 가 (100)
(61)
(59) (58) (59) (51) 가
(57) 가 (57) (57) (58) (52) (52) (52) (52)
0 (61) (101) (101) 가 (59) 가 (51) 가 1
61) (61) (61b) 가 (101) (51) 가
(52) , (54)
(54) [(51)] , (51) , (54)
가 , 가 (54)
가 (54) 가 , (54)
[(51)] , (54) 가

(54)

(61) (52) (56) (52) (61) (52) (61) (59)

(60) (53)

(61) (54) (62) (61) (62) 가

가 가 가

(54) 가

(61) (64) (65, 66) (69) (71)

(70) (61a)

(85, 86) (52) (56) (61) (83) (83) 1, 2 가

(82) (82) 가 (83) (83) (83) (56) (82)

(83) (62), (63) [(82) (85)] (83) (82) [1, 2 (82) (84)가 (84) (84)] (84) (84)

(93)가 (84) 1 (84) 가 (92), (84) 2 (86) (84) 가 (93) (93) (92) (93)

가 가 (82) (83)

1, 2

(54) 가 가 가

(84) (56) 가 (54)

(51) (63) 1 (85), (84), 2 (86) (87) (90) 가 가 가 (91) (87) (90) (83) (83) (83)

(83) (83) (61) 가

(83) HEPA (95) HEPA (95) 0.3 (94) (94) 99.7%

가 가 (83) (83) (96)

(83) (83a) (83b)

(96)

(83)
(97)

(83)

가
(97)

(97)가

(97)

(83)

가

(83)

,가

(91)

(87)

(90)

,가

(91)가

(87)

(87)

가

가

가

(91)

(87)

가

(51)

(82)

1

(85), 2

(86)

가

(85), 2

1

(86)

(85), 2

(86)

가

1

(51)

(76, 78)

(52)

(61)

(72)

(73)가

(74, 75)

(52)

(61)

(72)

(1)가

(72)

(51)

(51)

(72)가

(51)

(72)

(78)가

1

(85)

2

(82)

(78)

(78)

(82)

(head band)(89)

72)

(82)

(82)

(78)

(

8)

가

가

(5

2

(86)

(82)

2

(86)

(90)

가

(82)

, 2

(86)

(90)

(90)

가

가

가

HEPA

가

(撥水)

가

(84)

가

()

가

가

()

(中空絲)

(), (PSA),

(82), (87), (88),

(89), (87), (88)

(82), (83) 가 (91) (87)

(88), (82), (84) 2 (86), (87)

가 (82)

()

(84) 가

(83), (87), (90) 가

(91)

5 4

1 16 16 (111) (112) 4 (112)(

30%(70%)가 [(112)] 가

(113) (112) 4 (114)

17a) (115) 3 (116) (117) (118) 2 (1

(119) (120) (113)

(112) (115) (121)

(116) 4 (119) 2 (117a) (118) 1 (117) (113) 3

(114), (112) (120) (123)

4

(116) (121) (115) 4 (114) 3

1 4 (114) (113) (112) (116) (113)

(117) (118) 2 (117a) (119) (120)

5) (114) 2 (117a) (115) 3 (116) (113) 1 (117) (

(121) (115) 3 (116) (122)

(113) 가 (122) (115) 3

(116) (113) (113) 1 (117) (118) 2 (117a)

(119) (120)

i

5 10 , (119)

가 .

, 5 (121) 18 21 . 21 , 가 (127)
(113) 가 (126)

(121) , (121) (113)

(126) (113)
(121) (113)

21 .

1. (127)
(1) , 5 10
(2)

2. (127)
(1) 5 10
(2)

2

가 , i ,

6 22 . 22 ,

22 가 가 (128) , 가 (121) 3 , (122) (129)

(126) (127) (113) (121)

(113) 가 (121) , 가 (121) (128)

(121) 가 (128) (113) (113)

(122) 가 (128) 가 i ,

7 23 . 23 ,

23 , (130) (130) , (H) (121) (TS)

(126) (127) (113) (121) , 가 (51)

가 , 가 . , 가

(121) 가 (121) , (121) (126) (113) (130) (

H)

(TS)

가

2 (TS) (125)] [1 (124) (113)
 (T) i , 가 ()
 .
 가 8 23 24 . 24 (H) (TS)
 (128) (D)
 가 (126) (127) (121) , (51)
 (113) (113) 가 (121) (126)
) (121) (113) (121)
 S) 가 (121) (130) , (T
 (TS) (128) (가) (D) 0 100% 가 ,
 (가 (128) (D)() (100%) , 가
 銖玖庸 (TS) 가 (128) i (0%) , 가 i
 24 (D) (130) (H) 가 (128)
 TS 1 , 가 50 (TS) 가 50% (D) 50% TS 1 , 가 60 (D) 0%
 (D) 50% TS 2 , 가 70 80% (D) 100% TS 2 , 가
 80% (D) 100% TS 3 i .
 9 (TD) 25 26 27 . 25 , 26
 (TS)
 27 (計時) , (131) (131) (TD)
 (121) (TS)
 가 (127) [(TD)] , (121)
 (126) (113)
 가 (127) (TD)
 (113) , 가 (121) (121) (121)
 (121) (121) (131) (121)
 (TS) (113)
 (121) (126)
 (TS)
 26 TD TS , 1. TD가 0 10 TS 1 , 2.
 TD가 10 20 TS 2 , 3. TD가 20 30 TS 3 i
 樽惶磯
 4 .
 4 28 ,
 (133) (134) , (135)
 (覺醒感) 가 가 ,
 (136) (134) , (138) (136) (1
 (137) , (134) , (138) , (136) (1

37) 가 가 , (136)

(133) 29 AC (139)
 (140) 30 (135) (141) DC ,가 AC
 가 (142) , (143) 가 가
 , (135) , (137) 가 가
 , (137) , (135)
 (1) , 2 (133) .

31 , 가 (144) , (145) DC (1
 46) , (135) (147) , 가
 (143) , (144) , (144)가
 (147)

32 (148) (133) (148) () ,
 , (27) (138) , (134) (136) (134)
 , , 가 (135) , (135)

33 36 , 가

33 가 (149) , (149) (138) .

34 (150) (138) . (150) ,

35 151) , (151) (138) . (151) ()
 , , 가 가
 .

36 , (152) (153) (136)
 , , 가
 , (23) , (1) (23) (23a)
 , (23) (1) ,
 , (23a)

(57)

1.

25% , 35%

2.

, , , ,

3.

, , , ,

4.

1 3 , 가 ,

5.

3 , ,

6.

5 , ,

7.

1 3 , 가 ,

8.

1 3 , 가 ,

9.

1 3 ,

/

2 10. 3 ,

2 11. 3 ,

1.5 L

1

2 12. 3 ,

가

12 13. ,

12 14. ,

, , ,

14 15. ,

14 16. ,

, 가 ,

17.

12 ,

가

14 18. ,

14 19. ,

2 20. 3 ,

20 21. ,

가

20 22. ,

가

20 23. ,

2 24. 3 ,

1 25. 3 ,

1 26. 3 ,

26 27. ,
Zn Zn

1 28. 3 ,

1 29. 3 ,

1 30. 3 ,

1 31. 3 ,

1 32. 3 ,

DC

AC

33.

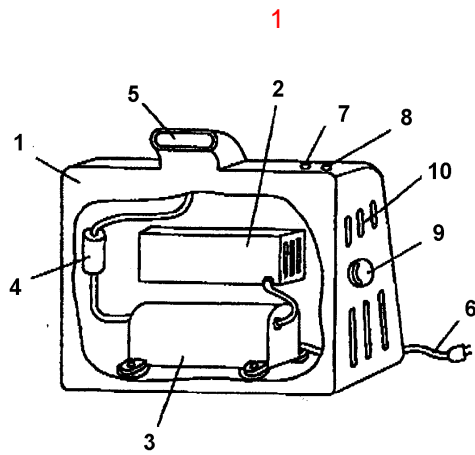
1 3

34.

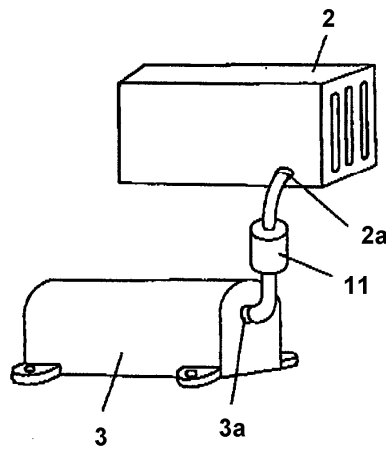
33

DC

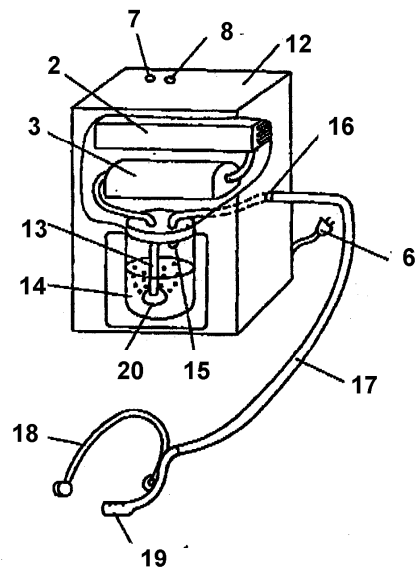
가



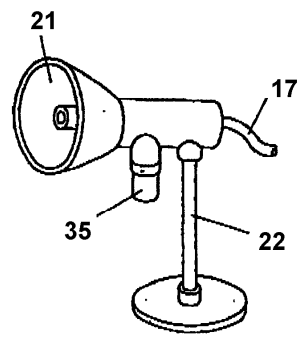
2



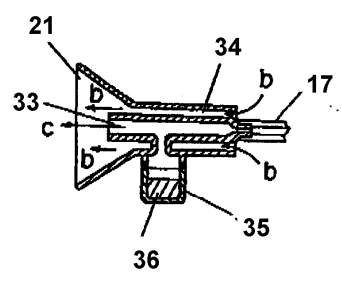
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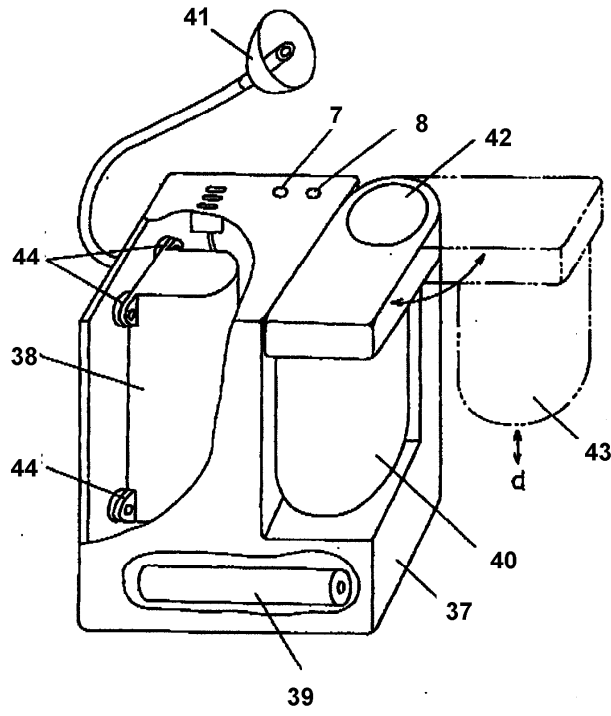
4a



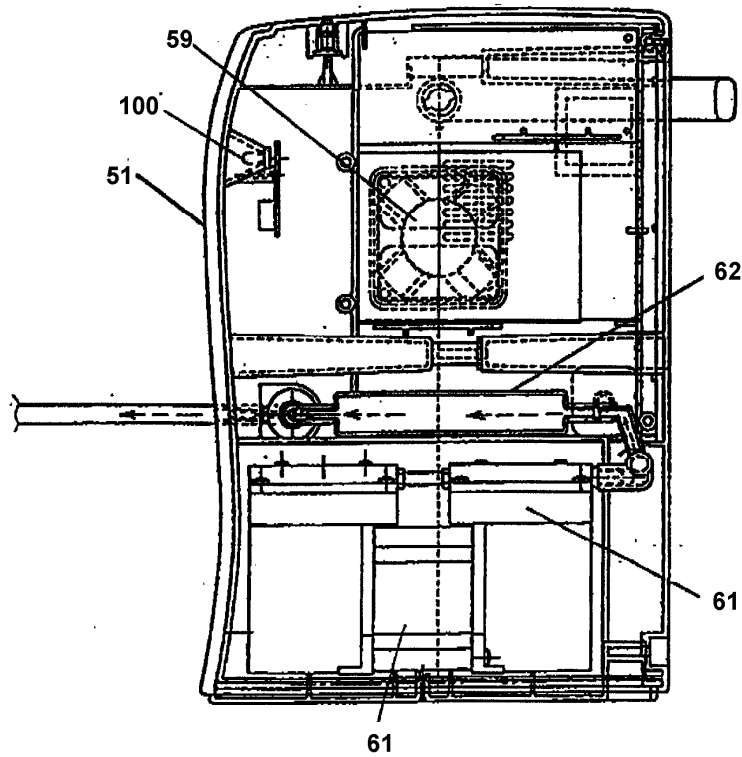
4b



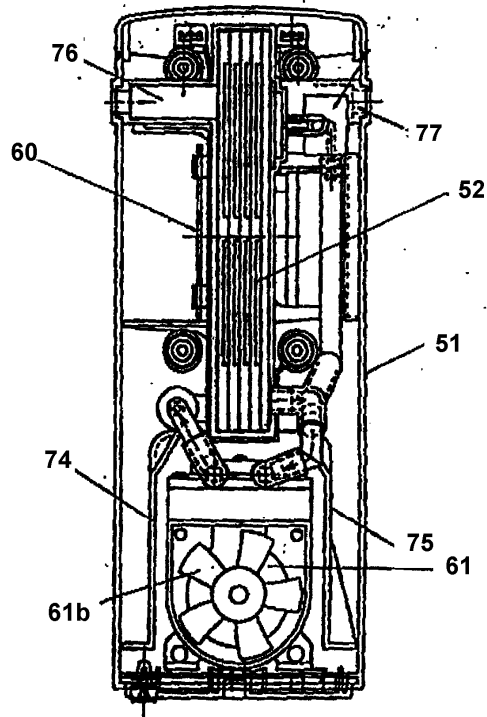
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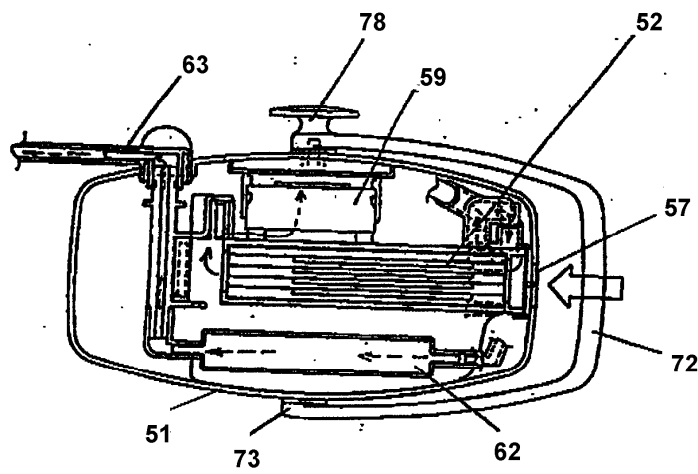
6



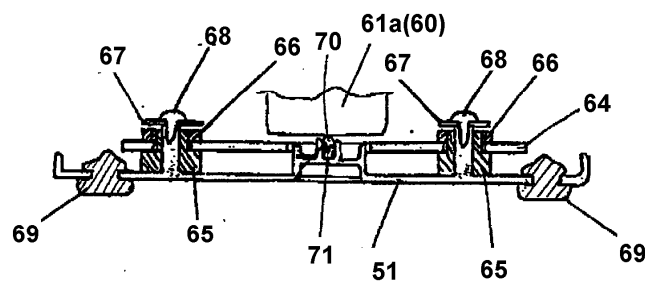
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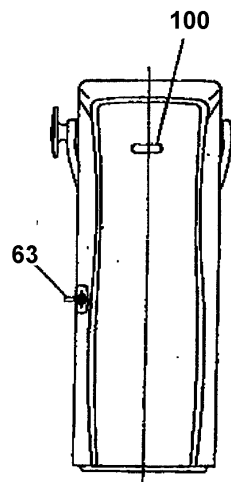
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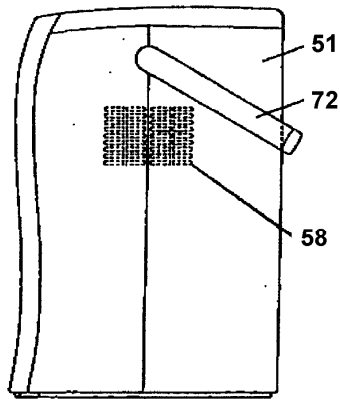
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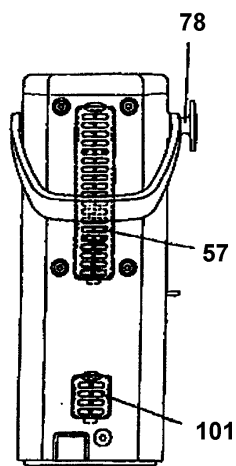
10a



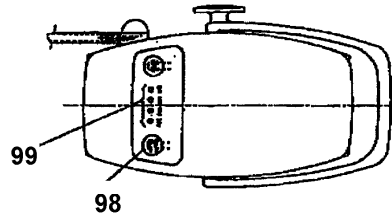
10b



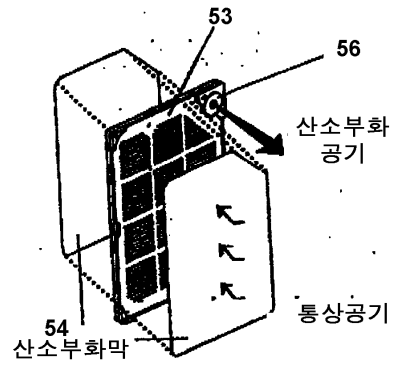
10c



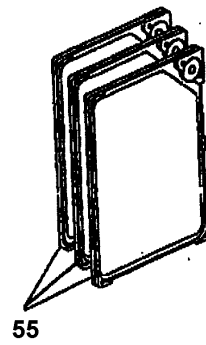
10d



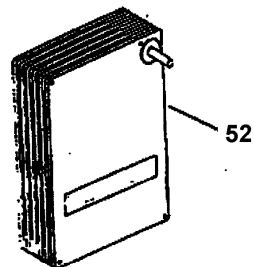
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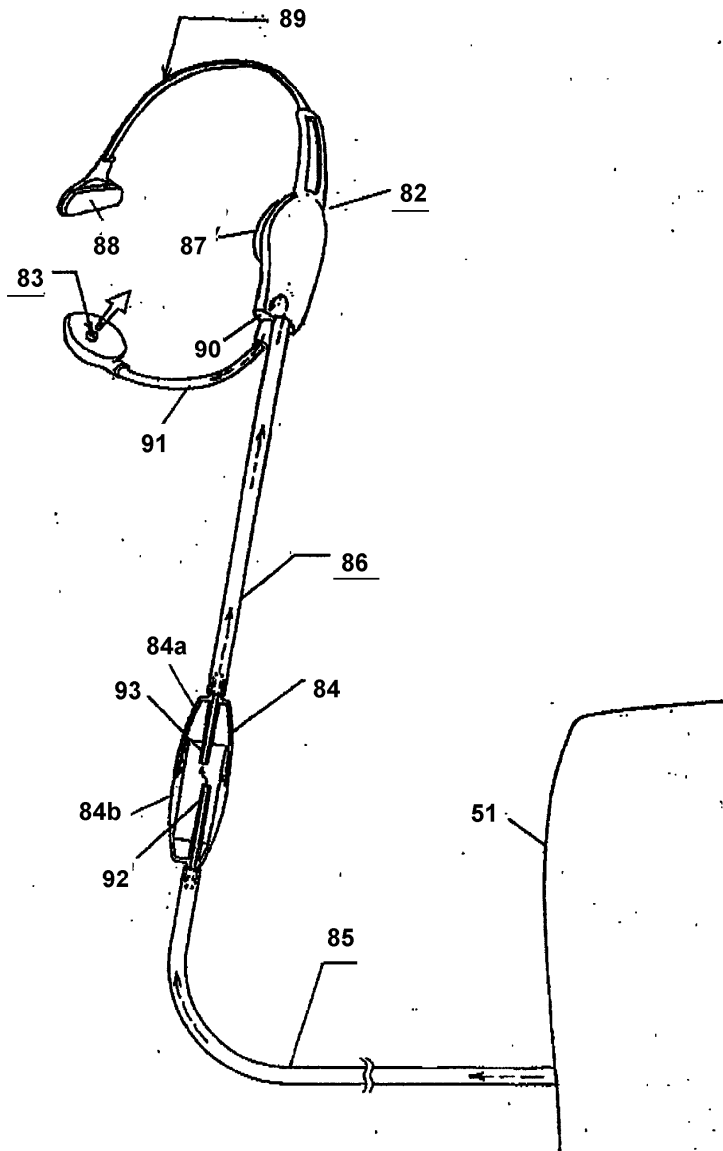
12a



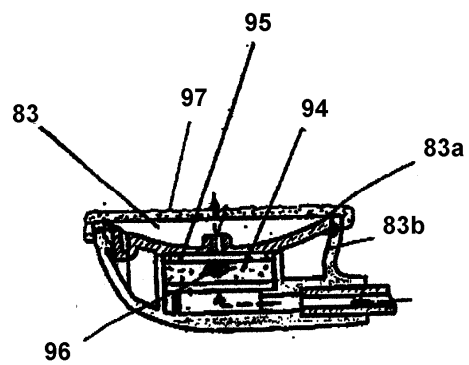
12b

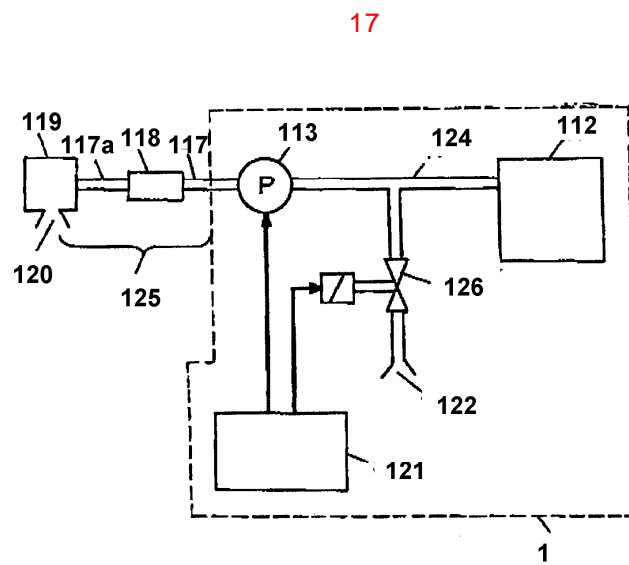
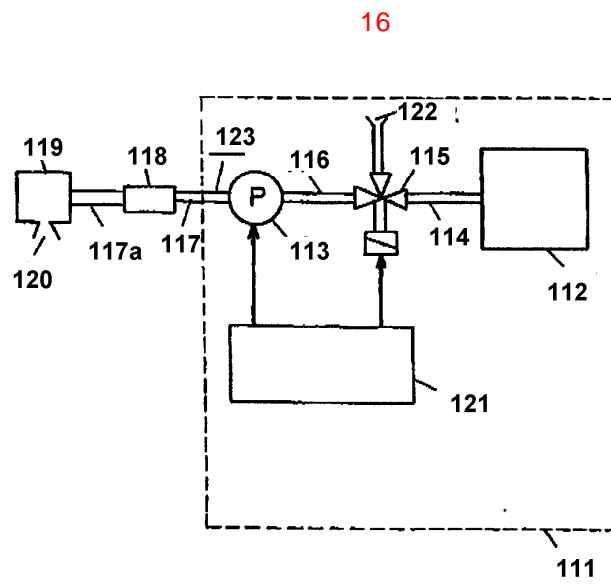
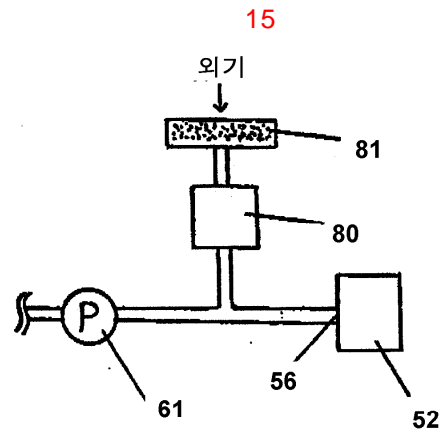


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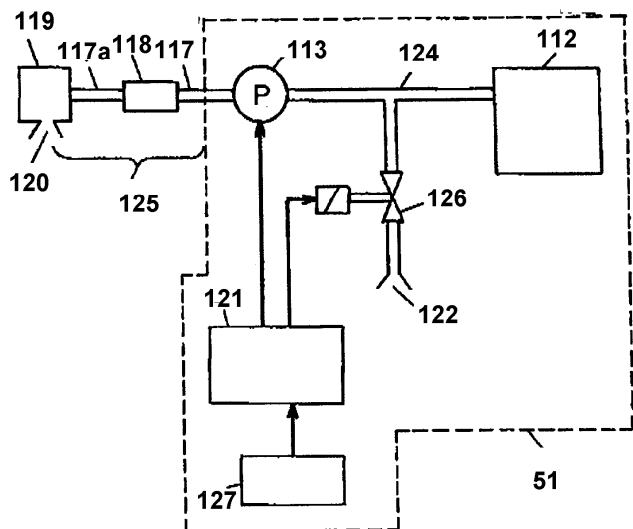


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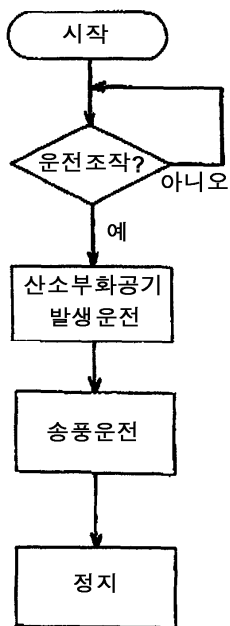




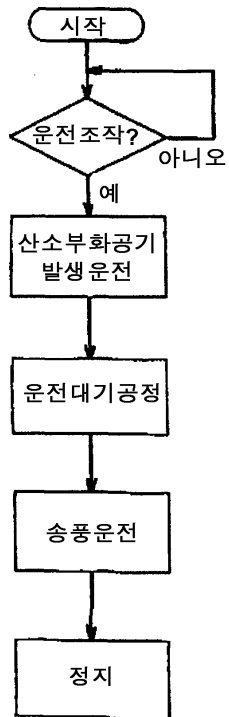
18



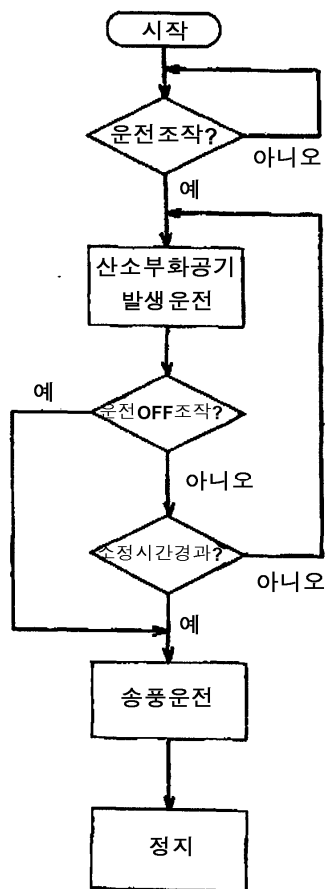
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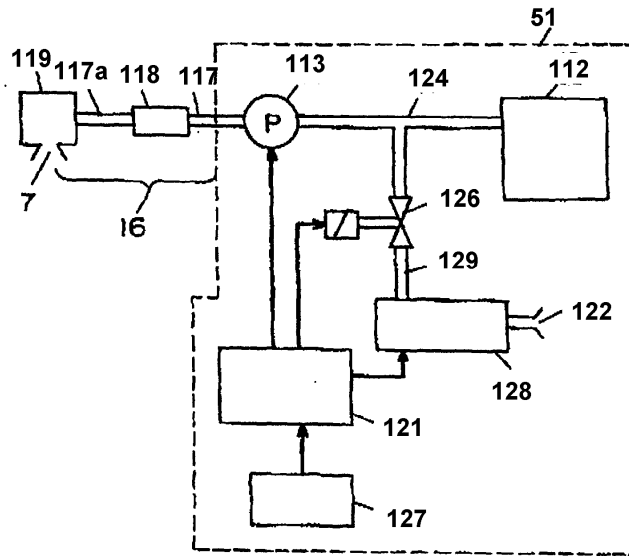
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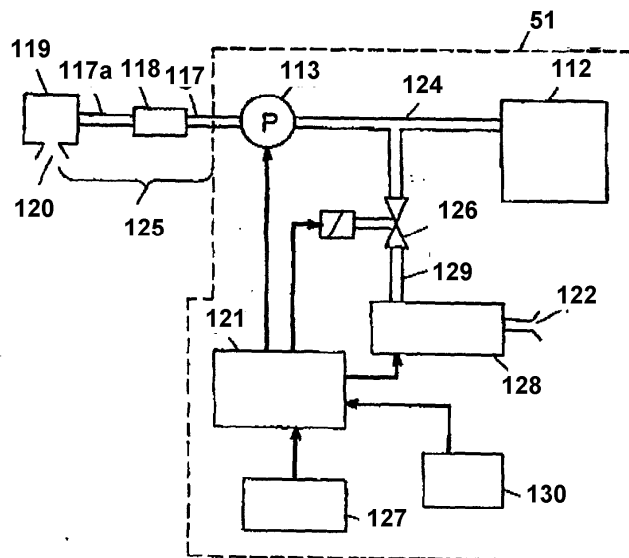
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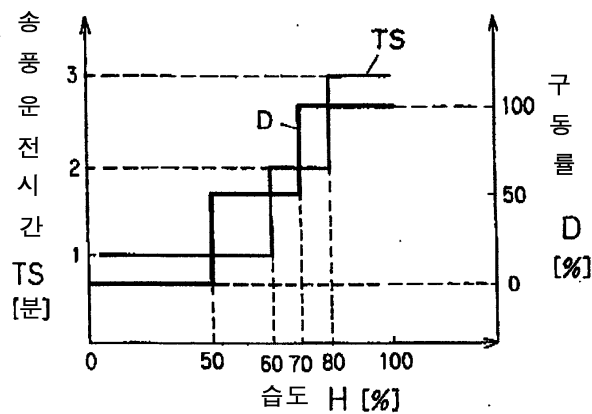
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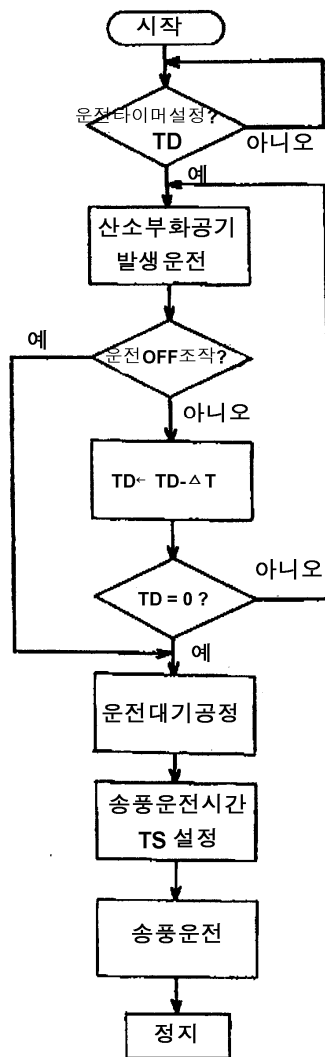
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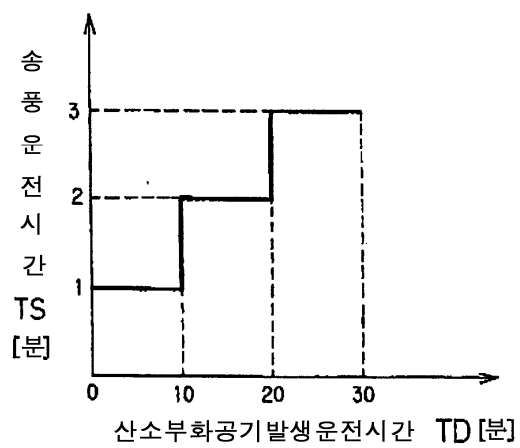
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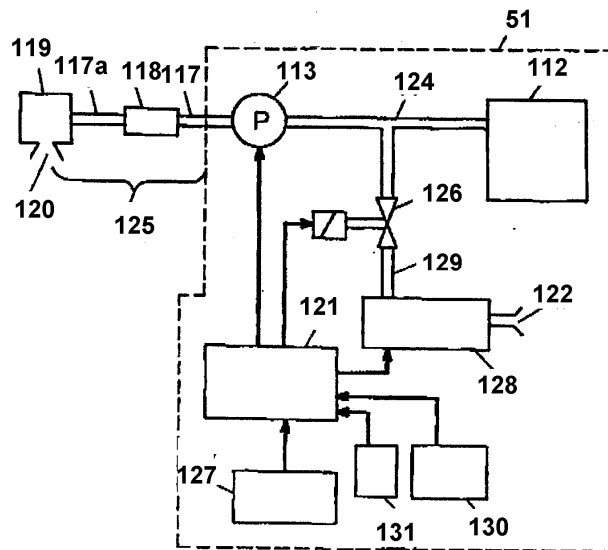
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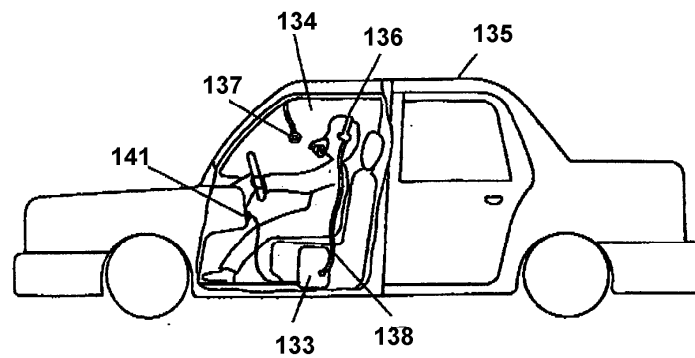
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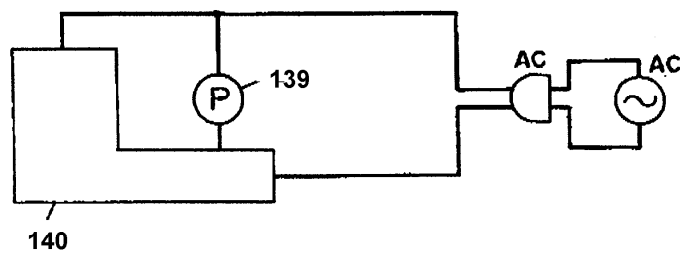
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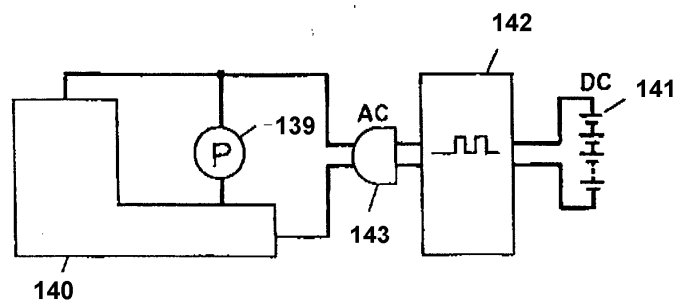
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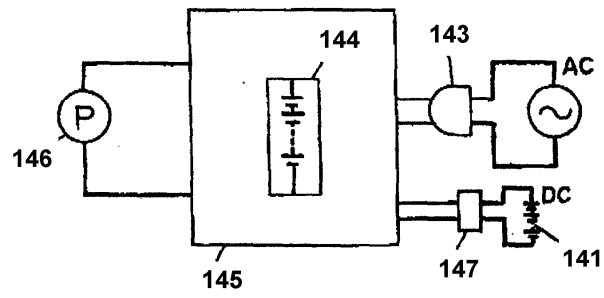
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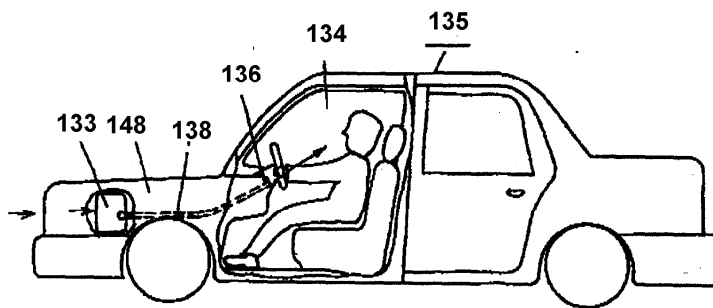
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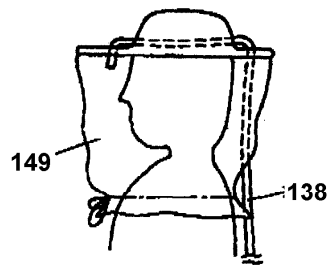
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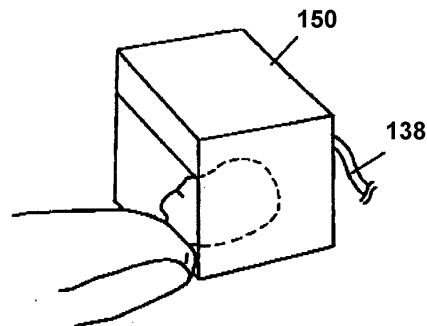
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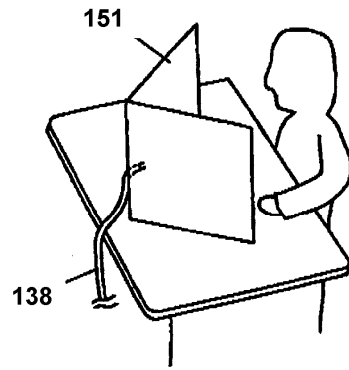
33



34



35



36

