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	(24)	2002 11 06

(21)	10 - 1999 - 7003668	(65)	2000 - 0068844
(22)	1999 04 27	(43)	2000 11 25
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(86)	PCT/JP1998/03829	(87)	WO 1999/11462
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(81)	:	,	,	,	,	,	,	,	,	,	,
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(30)	97 - 232637	1997 08 28	(JP)
	97 - 299977	1997 10 31	(JP)

(73)	가	가	
			2 4 - 1

(72)	가	3	3	5	가	가
	가	3	3	5	가	가
	가	3	3	5	가	가
	가	3	3	5	가	가
	가	3	3	5	가	가

(74)

:

(54)

$$(70), \quad (70) \quad , \quad (2) \quad (70) \quad (60) \quad (20) \quad (30) \quad (60) \quad .$$

$$(60) \quad (30) \quad (2) \quad , \quad .$$

1

5 - 162333

가 1 ()

63 - 116833

가

가

가

가

1

2

1

2

2

가

가
가

1 2

가

가 가

70 80%

1 2 , 1

2 3 , 3 . 1 2

2 가 1
가 2

2

가 가가

(良否)

가

1

2 1

3(a)

3(b)

4

5

6

7

8 (70)

9 8

10 (70)

11 (70)

1 4 , 5
6

()

6 (1)
 (2) 가 , 가 (3) 가 (4) (5) (2) (3) (4)
 (5) (2) (1) (4) (5) 가

가 (4) (2) (6) 가
 (7) (7) (8) (8) 가

, (7) (11) (1) (9) (9) (9)
 , 가 , (11) (9) (9) 가

(9) (12) (9) (9) (9) (9)
 (12) (12) (9) (9) (12) (12)

(13)가

(13)

(14)가

(14)

(13)

(5)

(2)

()

1 4

(2)

1
, 4

(2)

, 2

0), , (6) (20) (2) (6), (30) (2)
 0) (50)(2) (6) (20) (20) (40)(1) (3)

(40)
(42)
(43)
(51)
.
(42)(41),
(6)
(51)
(52)
.(41),
(50)
(42)
.(41),
(40)
(42)
.

(52)

(50) (51) (52) (20)가 (53) (53)
 (53) (60) (53) (20)가 (53) (53)
 (70)(3)

(2) (6) 가 , 가 , (g)
 as barrier 2 , , ,
 , (6) (61) 2 1
 2 (62)가

(62) (62) (62) (62) (62) (62) (62) (62)
 (30) (40) (6) (40) (622) (622) (624) (621)
 (621) (62) (62) (62) (622) (622) (624) (42a)
 (623) (622) (624) (625)가 (624) (624) (624)
 가

 (析出物) , , (9) (624) (624) (624)

(6) () (40)

1 (63) (6) (63) () (63)
 (631) (631) (40) (41) (411)
 가 , (631) (631) (in
 k end)

1 3 (40) (50) (50)
 (51) (52) (54), (55)
 (54) , (54) 가 (55) 가
 (40) (46) (45) (45) (46) (54)
 (45) , (55) (40) (50) (46)

(50) (40) (40) (40) (42)
 (47) , (50) (50) (56) (56) (47) 가
 (51) (51) (51) (51) (51) (51) (51)

가

,
 (5) (40) (42) (48) (45), (42a)
 가 가 (48a), (48b) (48c) (2) (50) (52) (521) 가
 (48c) (48c) (48c) (48c) (48c) (48c) (48c) (48c) (48c)
 (521) (521) (521) (521) (521) (521) (521) (521) (521)
 (20) (70) (60) 4 (60) (50) (50) (52) 3(a)
 가 (60) 3(b) 3 (60) 70 80% (611) (611)
) (50) (50) 1 (611) (611) (611) (611) (611)

1 (611) 2 (612)
 () 2 (612)

2 (612) 3 (613) PET , 3 (613)

1 (611) 40 , 2 (612) 15 , 3 (613)

$$(50) \quad , \quad (2) \quad (53) \quad (20) \quad (70) \\ (60) \quad (20)$$

가 (50) (20) (70) 가

가

가

가

2

(PET) 1 () 110 120 , 3
254 . ,

(20) . 가
(20) (70) (20) 가

()

() 가

가

(624) $\quad \quad \quad$ (20) $\quad \quad \quad$ () $\quad \quad \quad$ 가
 $\quad \quad \quad$ (21) \quad , \quad (21) $\quad \quad \quad$ (60) $\quad \quad \quad$ (61)

()

3

()

5 (1) (31)(32)가 (33) . (33) 2 가 (34)(35), (36), (5) (2) (34)(35), (5), (37) (31)(32), (33), 가 (4) (7) , (5) (13) (1) (2) (3) (2) (31)(32) (4) (37) (33)

(2)가 가 (4) (624) (6)
(5) (522) (2) (20)

D (2) (48) (36) (37)
 , (9) , (20) 가 (13) . (2) (6) (624)
 7) (4) (6) 가 , (522) (5)
 (20) .

(2) (3) (4) (624) (5)
 D (522) (2) 가 (34) 가 (48b) 가 (35) , (35) 가 (4), (5) (48c)
 (2) 가 (34) 가 (35) (4), (5)

(5) (3) (4)
 가
 ())

가 ,
 가
 가

7 110cc , 110cm³
 가 , 가

7 가 () 0% 가 , 100% () 가

8 11 가

8, 9 (70) 8
 , 9

2 (211)(212)가 , (20)
 3 (201)(202)(203) (522)가 (201)(202)(203)
 (211)(212) 가

(522) (70) (20)
 , 가 (522) (201) (2)

2) 9

(211) (201) . . , (202)가 (201)(201)

가	.		20	50%	(203)
가		(20)	(6)	90%	

10 (70),
(207)(208)(209) (70)
11 (204)(205)(206) (207)

$$(21) \quad \gamma_k$$

(57)

1.

3.

1 2

1 , ,
2 , ,
,

2 가 , 가

4.

3 ,
1 2 가

5.

4 ,

6.

5 ,

7.

6 ,
가 가

8.

3 7 ,

,

9.

3 7 ,
,

10.

, , ,
1 2 , 1
,

11.

10 ,
1 2 2 3 , 3
1 2 .

12.

10 ,
2 가 1 .

13.

3 4 ,
가 ,

14.

5 ,

15.

3 4 ,
가 .

16.

3 4 ,
가 .

17.

18.

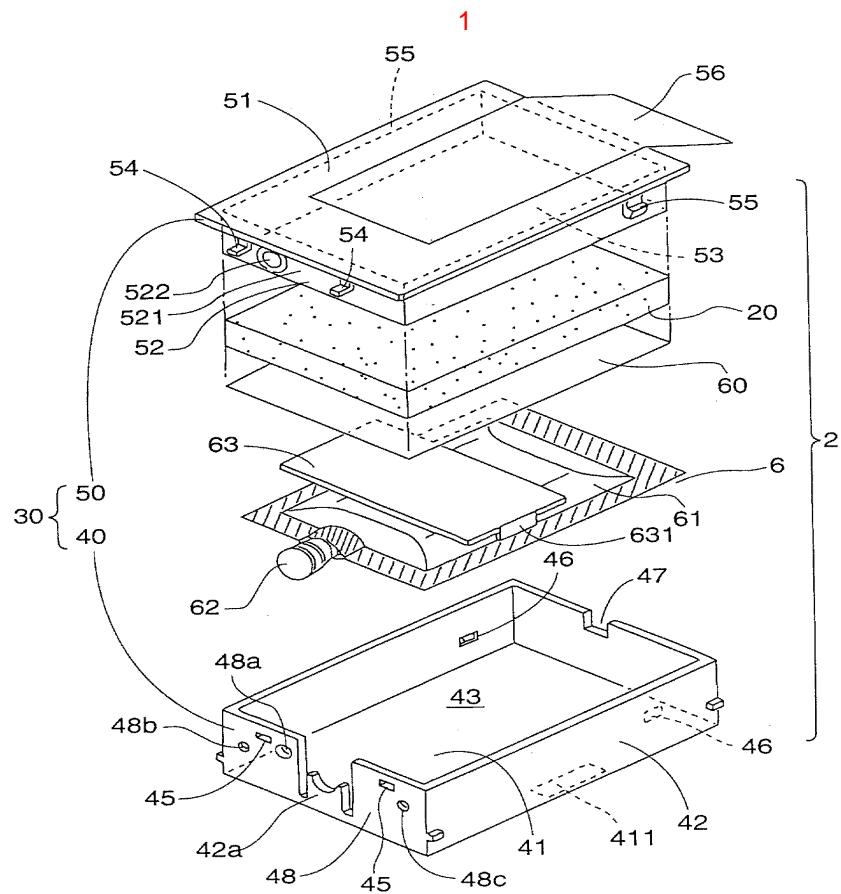
19.

20.

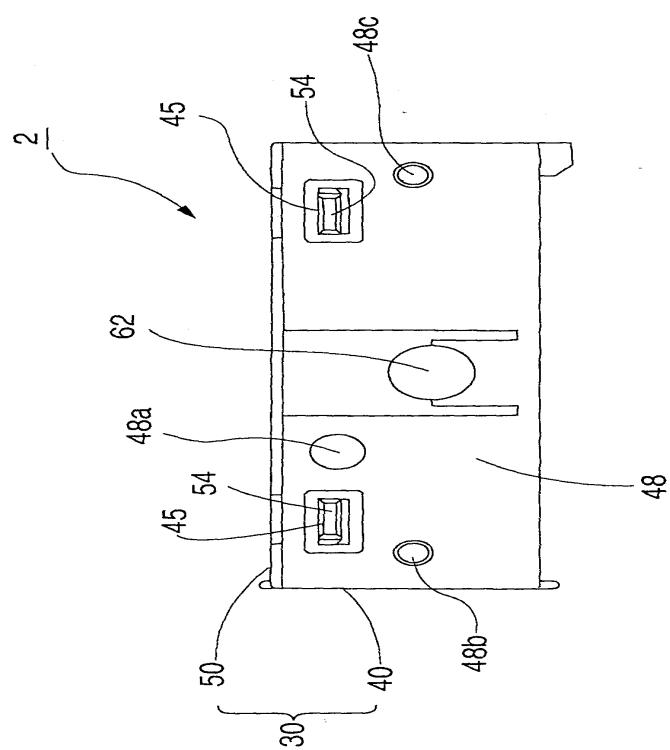
21.

22.

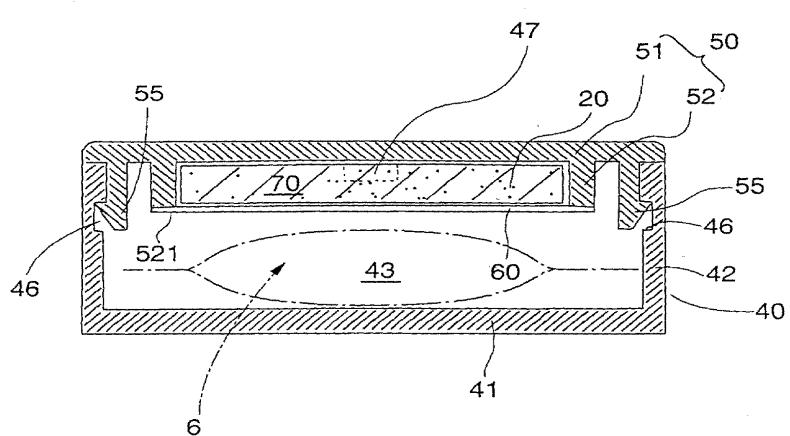
23.



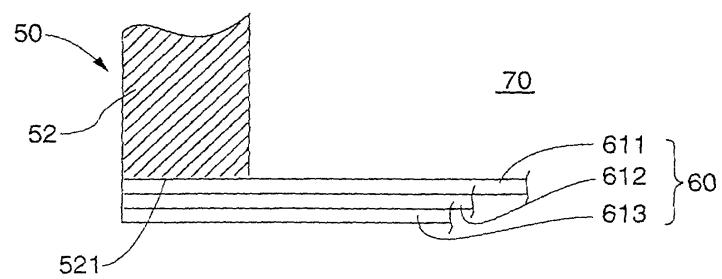
2



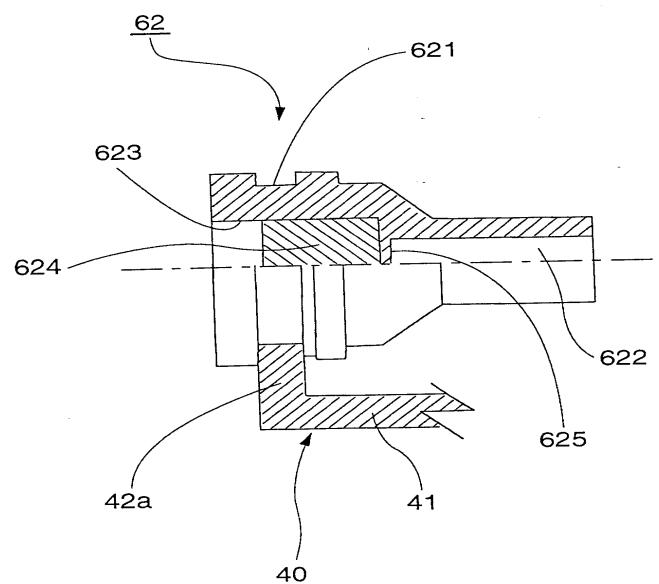
3a



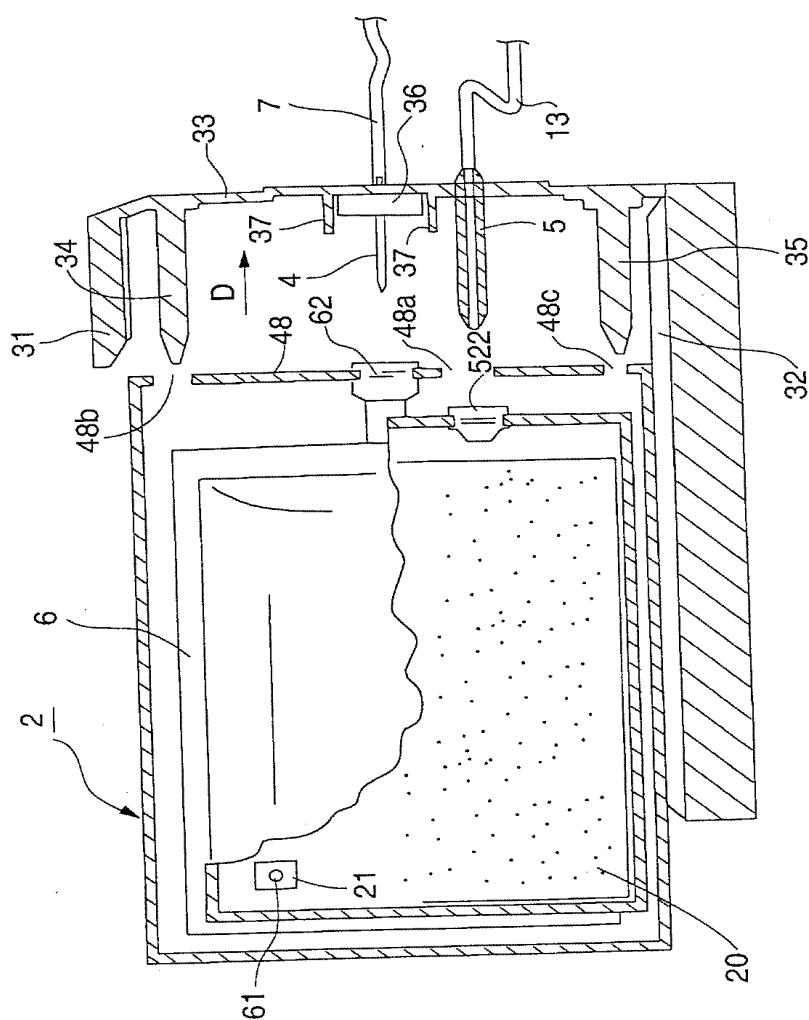
3b

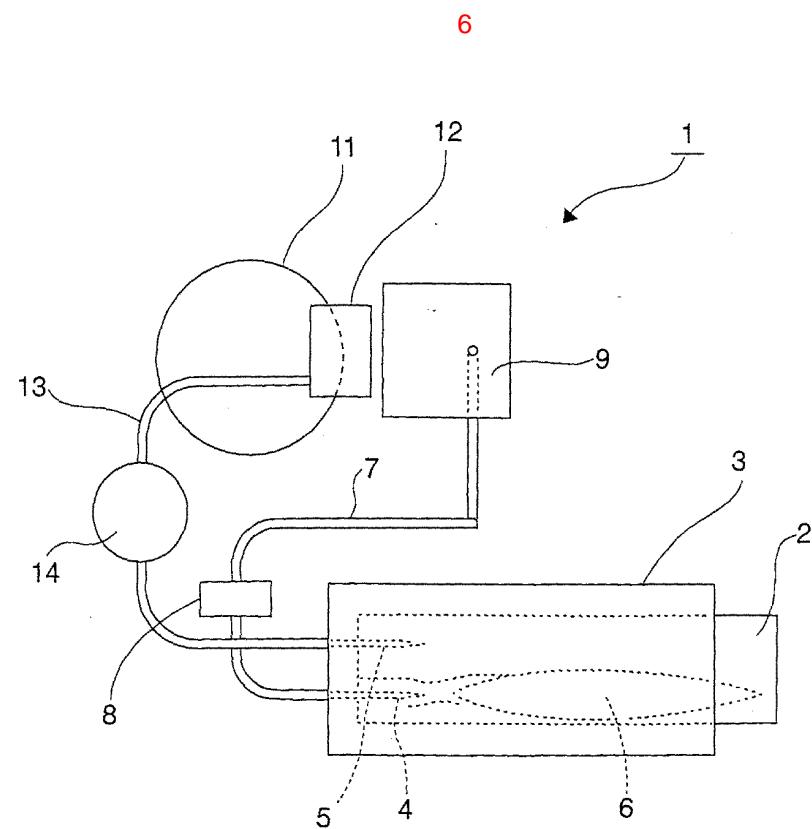


4

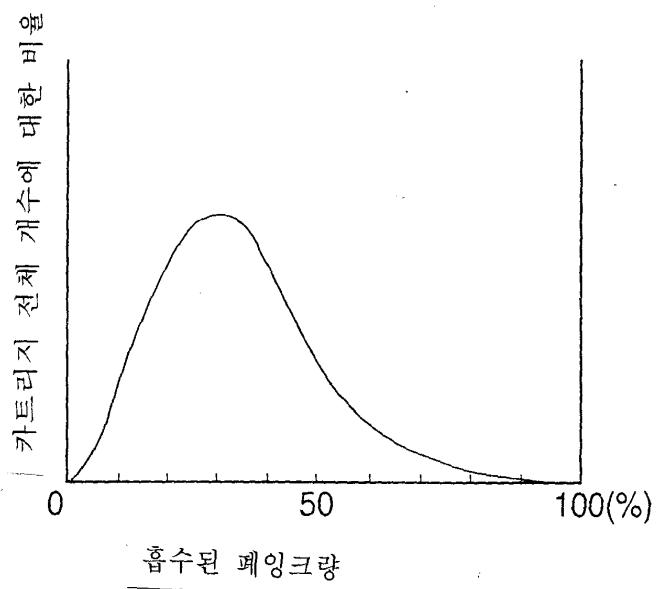


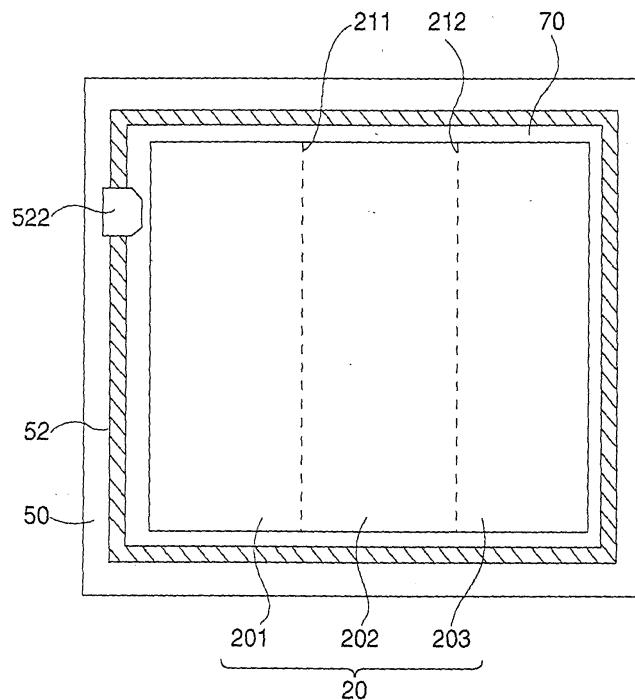
5



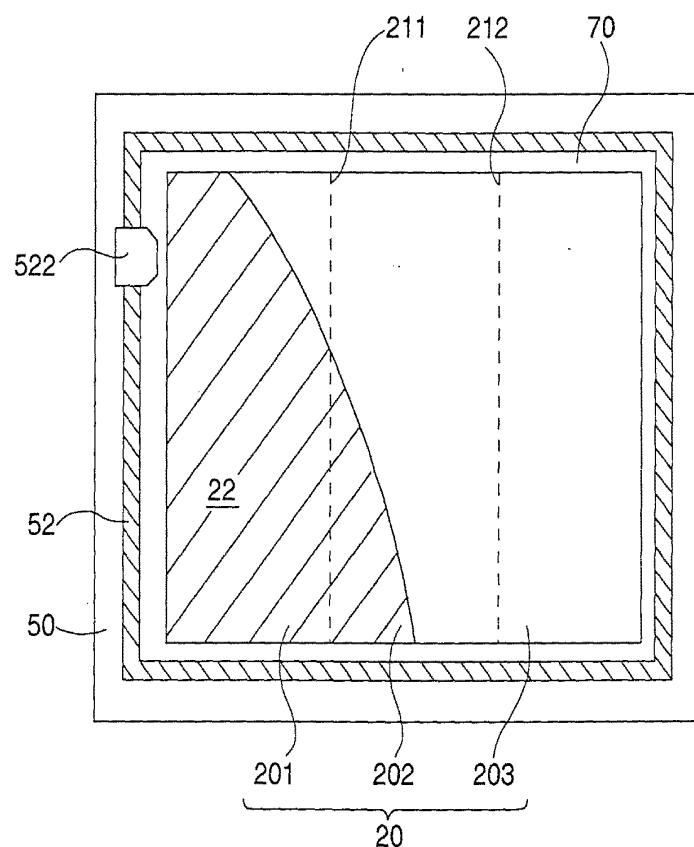


7

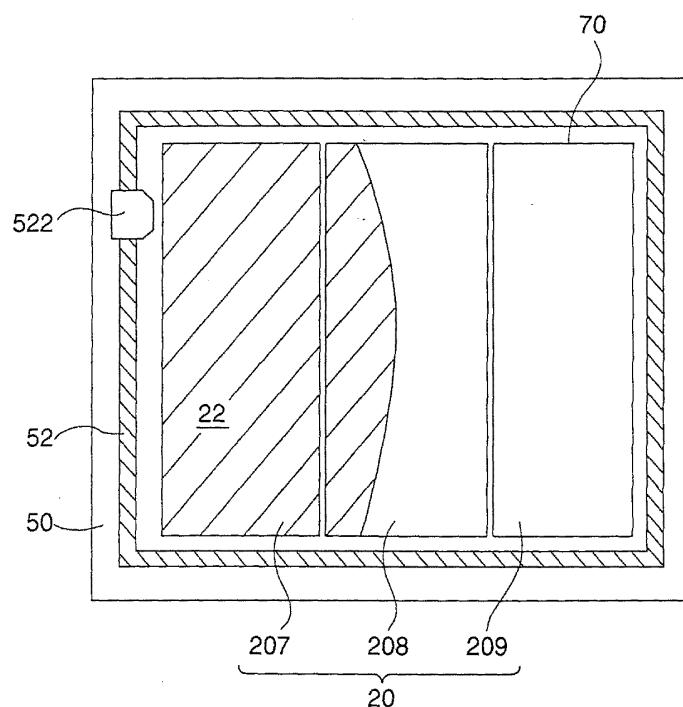




9



10



11

