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2003 - 0026092
2003 03 31

(21) 10 - 2001 - 0059090
(22) 2001 09 24

(71) 4 302 308

(72) 4 302 308

(74)
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(54)

가 , , 가 ,

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, 가 , 가

1

, 가 , ,

1

1

2	1	A - A	.
3	1	B - B	.
4		2	.
5		3	.
6		4	.
7		5	.
8		6	.
9		7	.
10		8	.
11		9	.
12		10	.
13		11	.
14		12	.
15		13	.
16		14	.
17		15	.
18		16	.
19		17	.
20		18	.

, 가 .

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(PDP)

10V

가

(flexible)

가

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가

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가

UV

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가

가

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2 μ m 5mm

5 3 , (7) (5) (13)
 (13)

6 3 , 3 가 (5) (13)
 (13) 가 , 3 (7) (13) (5) (13)
 (13) 가 4 (7) (13) (5) (13)
 가 3 (13)

7 10 5 8 C-C , (7)
 (1) (3)
 (7a) , 7 (7a) (9) (1)
 (11, sealant,)가 8 (1)
 (3) 1 (7a) , 1 (7a) 2 (7b)
 2 (7b) , (1, 9) (11)가 9
 (1) (3) 1 (7a) 2
 (7b) , 2 (7b) 3 (7c) , 3 (7c) ,
 (1, 9) (11)가 10 (1) (3)
 1 (7a) , 1 (7a) 2 (7b) , 2 (7b)
 3 (7c) , 3 (7c) 4 (7d) , 4
 (7d) , (1, 9) (11)가

(7a, 7b, 7c, 7d) (7)

(7)

(PET),

(DLC),

(7)

가 500 300 μ m

10 μ m 5mm

(7)
 0 - 50%

, 50 - 80%

80 - 98%

가

1.2 ~ 1.5 , 1.5 ~ 2.0 2.0 ~ 3.5
 가 2 μ m ~ 300 μ m

11 20

11 9

(S1) (S3).
 (S5). (7)
 (S7) (S9) (S11) (7) 가
 (7) (7) (S15) (7) 가
 (7) (5) (S17) (7) (11) (S19)
 (9) (S21).

(7) 1
 torr - 10⁻⁴ torr , 1000ppm - 0.1ppm

(acryl), (imide)
 (PS, Poly Sulfonate), (PET, Poly Ethylen Phthalate),
 (poly ether sulfonate)

(acryl), (dry film resist)
 가

12 10

(S51) (1) (S53).
 (S53) (S55) (S57) ()
 (S53) (7) (5) (S59) (7)
 (7) (S61) (9) (S63).

(acryl), (dry film resist)

(5) (7)
 1torr - 10⁻⁴ torr , 1000ppm - 0.1ppm

13 11

(S101) (1)
 (S103). (3) (1)

(7) (dry film resist)
 (S105). (S107) (S109) (7)
 가 (S113) (7) 가
 (7) (S115) (7)
 (7) (S117) (7) (S119)

(1) (S121).

, , DLC(diamond - like carbon),
 , (7) 500
 (5) (7)
 가 1torr - 10⁻⁴ torr , 1000ppm - 0.1ppm .

14 12
 (S151) (1)
 (S153) 1
 2 (155). 1, 2 (7)
 (159) (S161) (7) 가
 (S163) (S165)
 (7) (S167). (7) (7)
 (7) (5) (S169)
 (7) (S171) (9) (173).

(5) (7) 1torr -
 10⁻⁴ torr, 1000ppm - 0.1ppm 가 .

15 13
 (S201) (1)
 (S203). (S205) 1
 (S207) (3) (1) 2
 1, 2 (7)
 (S209) (S211) (S213) 가
 (S215) (S217) (7) 가
 (7) (7) (7)
 (5) (S219) (7) (S221) (1)
 (S223).

(acryl), (imide)
 , , DLC(diamond - like carbon)
 (7) 500
 (5) (7) 1torr
 - 10⁻⁴ torr, 1000ppm - 0.1ppm 가 .

16 14 1
 4 1 5
 7) 가 (5) (

(S25). (S27) ,
 (S29) (S31) (S33) 가 (S34) . 2
 2 . 2
 (S35) (9) (S37). 2 1 ,
 1 .

, (acryl), (imide)
 (PET, Poly Ethylen Phthalate), (PS, Poly Sulfon
 ate), (poly ether sulfonate) .

, (acryl), (dry film resist) .

(5) (7)
 1torr - 10⁻⁴ torr, 1000ppm - 0.1ppm 가 .

17 15 . 1
 5 1 5 .

(7) (5)
 (S71) (S73) (S75) 2 (7)
 (S79). 2 (7) (7) (S77) 1 (9)

(acryl), (dry film resist) .

(7) , 1torr - 10⁻⁴ torr,
 1000ppm - 0.1ppm 가 .

18 16 . 1
 6 1 5 .

(5) (S125).
 (S127). (S129) (S131) 2 가
 (S133) (S135) 1
 가 (S137). 2 1 , 1
 . 2 .

(S139) (9) (S141).
 , DLC(diamond - like carbon),
 , 500 .
 (7)

(5) 1000ppm - 0.1ppm 가 . 17 1
 19 7 1 5 . 17 . 1
 1 torr - 10⁻⁴ torr,

(5) (S175). (S17) (S181) (S183) (S185) (S186) (S187) (9) (S18)
 9) , 가 . 1 1 1
 9). 2 1 , 1
 (acryl), (imide) (PET, Poly Ethylen Phthalate), (PS, Poly Sulfonate), (poly ether sulfonate)

(acryl), (dry film resist) (7) , 1 torr - 10⁻⁴ torr,
 1000ppm - 0.1ppm 가 . 18 1
 20 8 1 5 . 18 . 1

(S255) , (S2) (S257). (S259). (S261) (S263) 2 (dry f ilm resist) 가 (S265) (S267) 1 가 (S269). 2 1 , (S271) (9) (S2 73).
 , DLC(diamond - like carbon), 500
 (7) , 1 torr - 10⁻⁴ torr,
 1000ppm - 0.1ppm 가 .

가

가

(57)

1.

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가

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2.

1

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3.

1

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4.

1

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5.

4

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6.

4

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(PET),

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7.

4

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8.

1 , , , , ,
(DLC), .

9.

1 , 2 .

10.

1 , .

11.

1 , .

12.

1 , .

13.

1 , 가 500 300 μ m .

14.

1 , 10 μ m 5mm .

15.

9 , 가 2 μ m 5mm .

16.

10 , .

17.

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1, 2

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23.

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22

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25.

18 22

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26.

18 22

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가

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27.

18 22

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18 , (PET), , (PS) ,

35.

18 22 , ,

36.

23 , ,

37.

24 , ,

38.

25 , ,

39.

26 , ,

40.

27 , ,

41.

20 22 , , , , , , DLC(diamond - like carbo

n),

42.

20 22 , 500

43.

23 , (PET), , (PS) ,

44.

24 , ,

45.

25 , , , DLC(diamond - like carbon),

46.

25 , 500

47.

26 , (PET), (PS) ,

48.

27 , , , DLC(diamond - like carbon),

49.

27 , 500

50.

27 , (PET), (PS) ,

51.

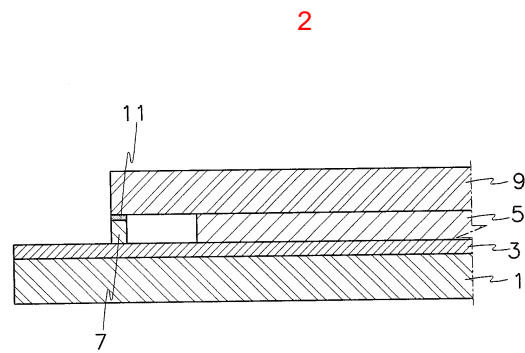
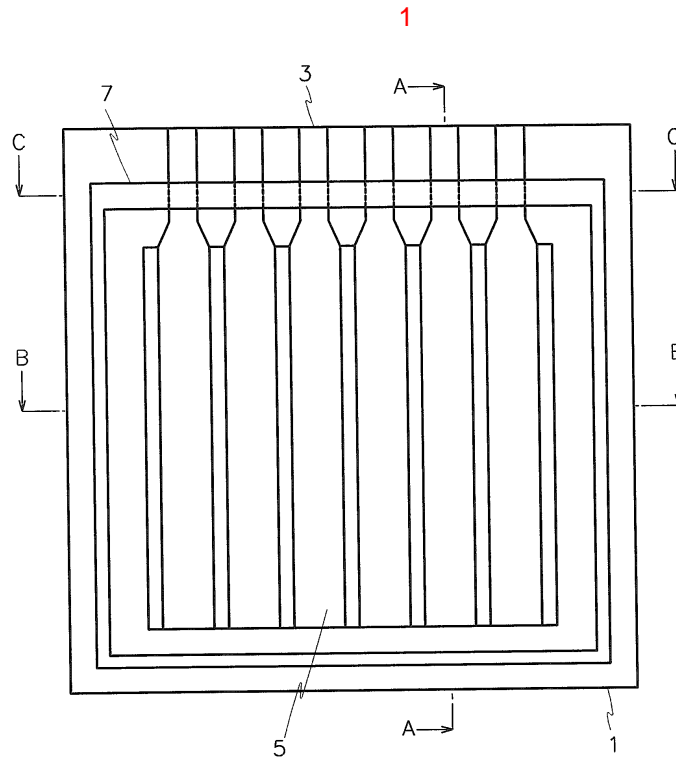
26 , , , DLC(diamond - like carbon),

52.

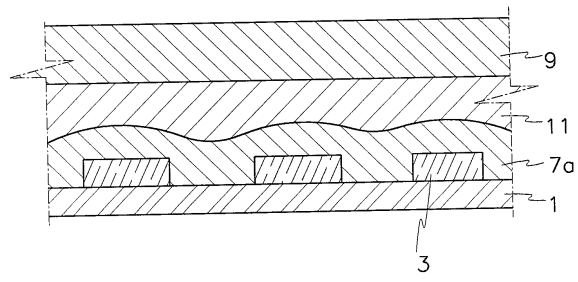
7 , 가 0 - 50%

53.

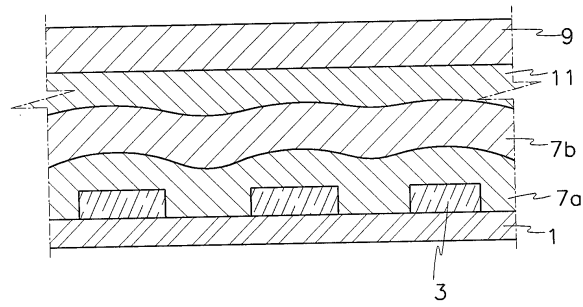
7	,	가 50 - 80%	.
54.			
7	,	가 80 - 98%	.
55.			
7	,		.
56.			
7	,		.
57.			
7	,	1.2 ~ 1.5	.
58.			
7	,	1.5 ~ 2.0	.
59.			
7	,	20 ~ 3.5	.
60.			
7	,	가 2 μ m ~ 300 μ m	.



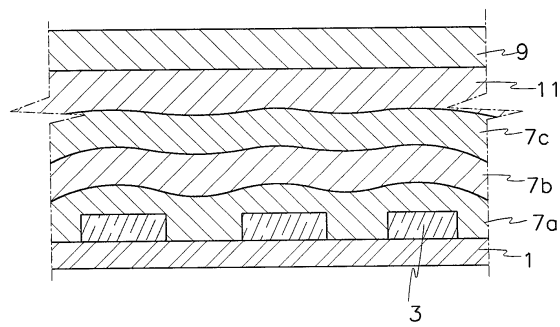
7



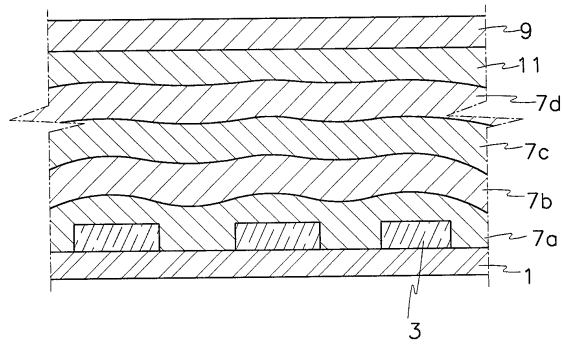
8



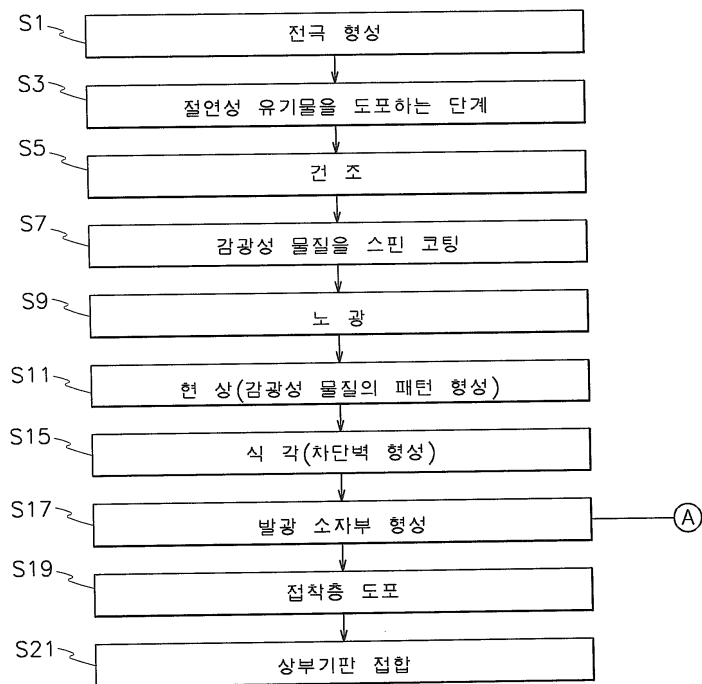
9



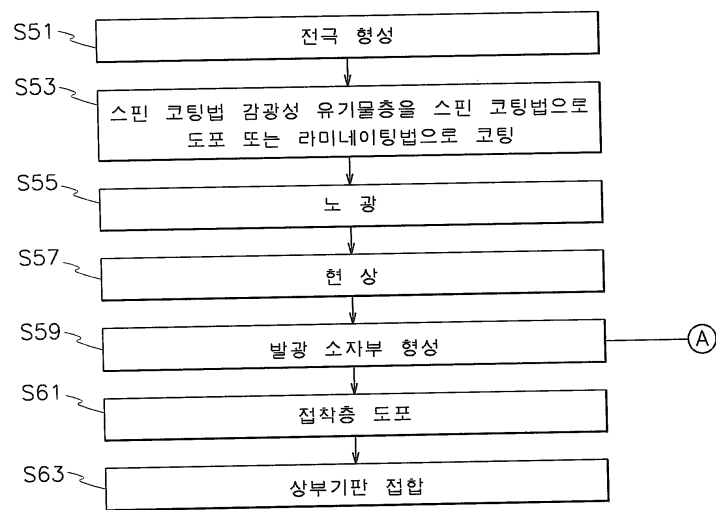
10



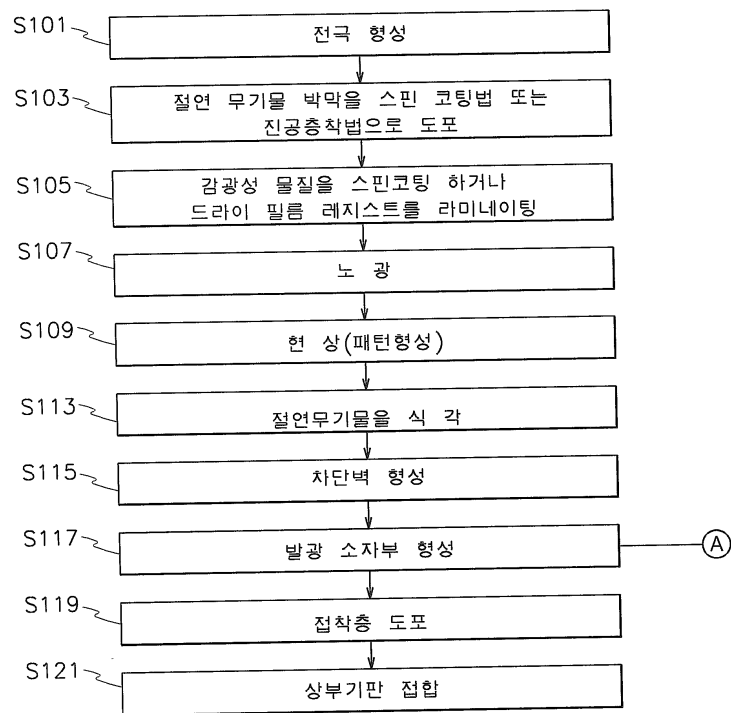
11



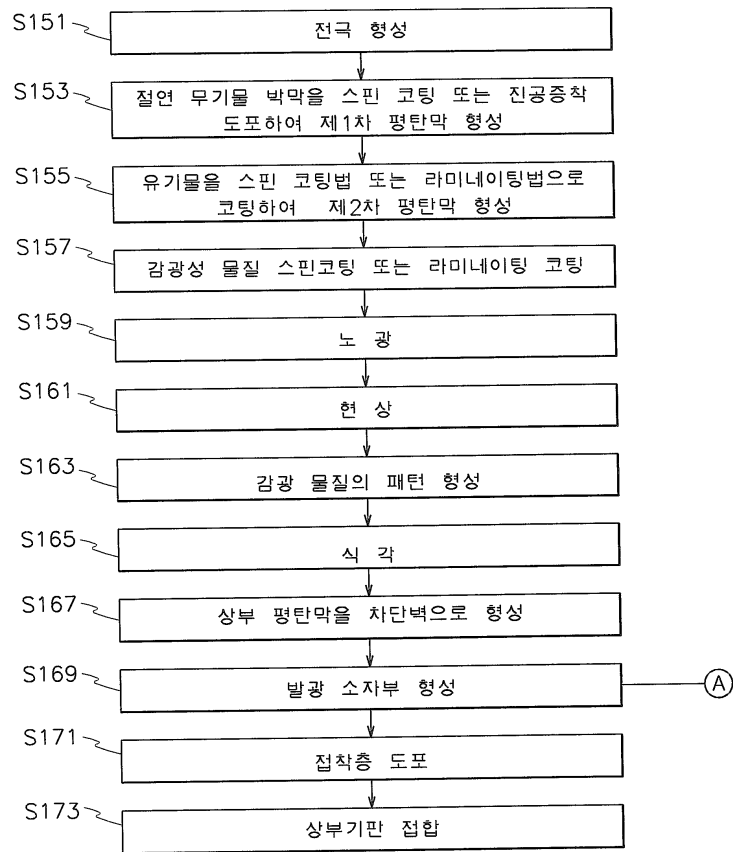
12



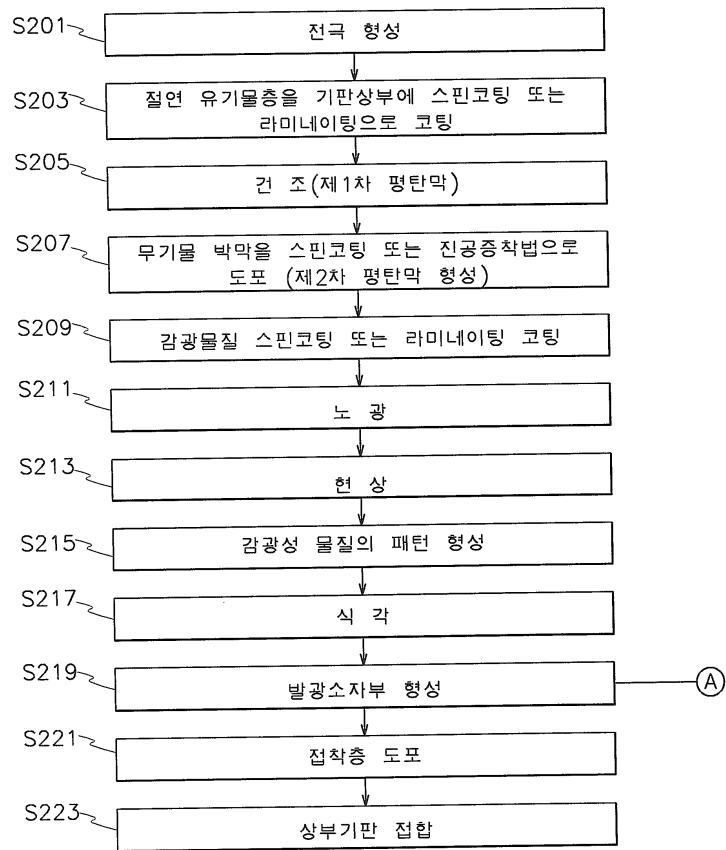
13



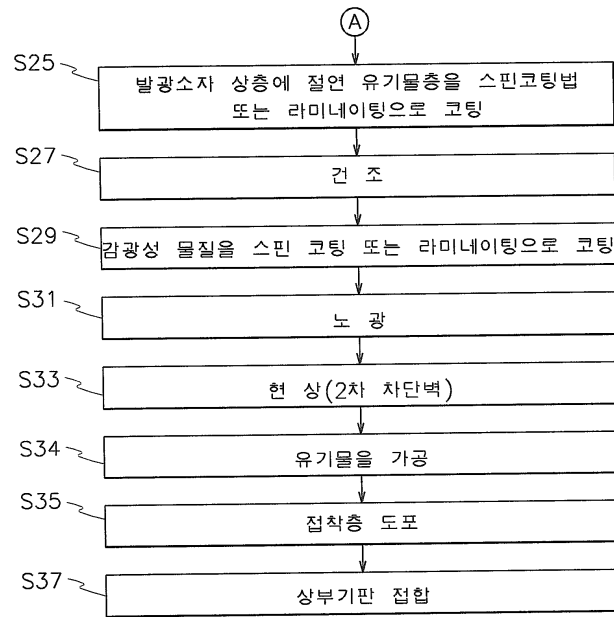
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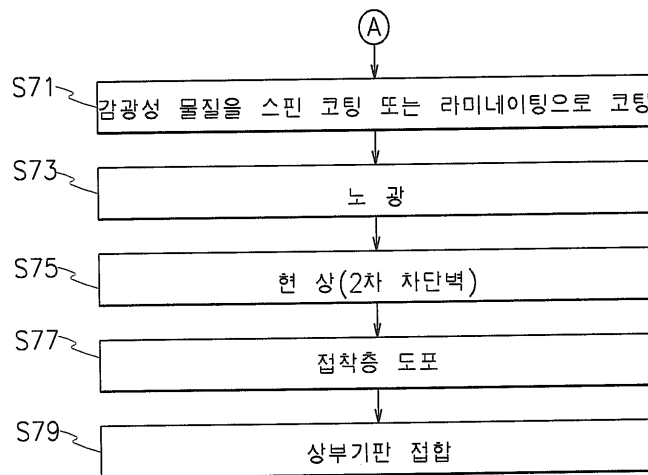
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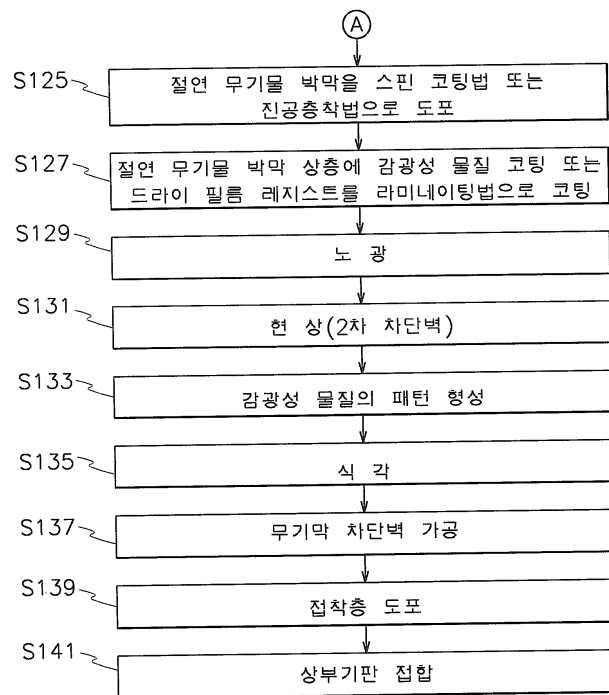
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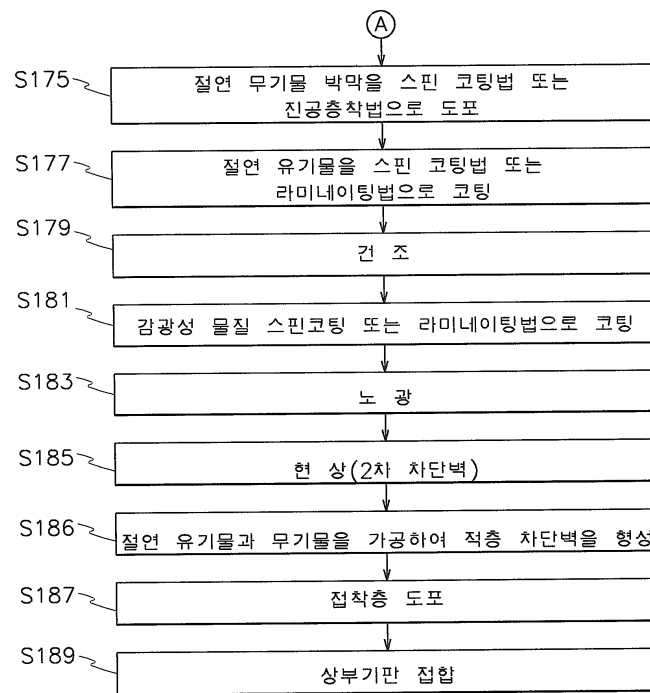
17



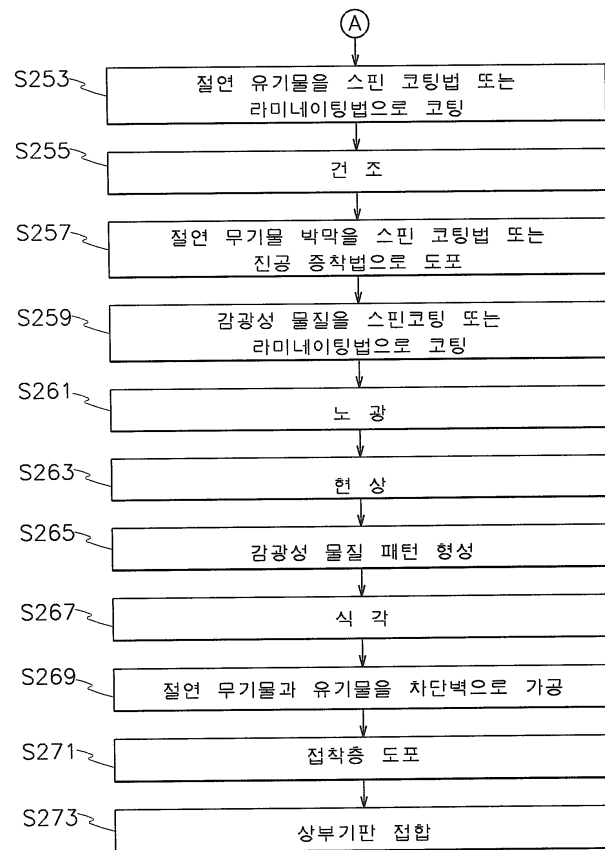
18



19



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专利名称(译)	有机发光器件及其制造方法		
公开(公告)号	KR1020030026092A	公开(公告)日	2003-03-31
申请号	KR1020010059090	申请日	2001-09-24
[标]申请(专利权)人(译)	易CHOONG勋 Yichunghun		
申请(专利权)人(译)	Yichunghun		
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IPC分类号	H05B33/04		
CPC分类号	H01L51/5246 H01L51/525 H01L51/56		
代理人(译)	您是我的专利和法律公司		
其他公开文献	KR100442335B1		
外部链接	Espacenet		

摘要(译)

本发明涉及一种有机发光器件及其制造方法，该有机发光器件以保护有机发光器件免受氧气和湿气影响以提高发光效率和寿命的方式封装有机发光器件。有机发光器件包括上电极和下电极，在距发光装置预定距离处设置阻挡壁，以阻挡来自上基板外部的的水分，并且通过粘合剂将上基板粘附到阻挡壁的上壁，以及制造它的方法。具有上述结构的有机发光器件具有降低电极的台阶高度和防止有机发光器件暴露于大气的效果，从而提高有机发光器件的发光效率和寿命。1 指数方面 有机发光器件，阻气壁，封装，发光层

