

(19) (12) (KR) (A)

(51) 。 Int. Cl. ⁷ G02F 1/1339		(11) (43)	2003-0075436 2003 09 26
(21)	10-2002-0014657		
(22)	2002 03 19		
(71)	.	20	
(72)		695-1 102 1212	
		489 가201	
(74)			
	:		
(54)	,		

UV 1 UV UV 가 , , , 1 UV UV 2

UV , UV UV UV , UV

4b

UV

1a 1d .

2a 2c .

3a

3b 3a

4a 4c

5a 5e

6 UV

7

< >

1, 20, 200 : 3, 30, 300 :

5, 50, 500 : 70, 700 : UV

750 : 1 UV

800a, 800b, 800c: 2 UV

9, 900 : 950 :

(Liquid Crystal Display : LCD)
(sealant)

가 (cm)

(Flat Panel Display),

가

가

1a 1d

, 1a , (1) (3) , (1)

(3)

(1) (3)

1b (3) (1) (7) (5)

(3) ()

가 가 , UV(Ultraviolet)

가

1c (1) (3)

1d UV (9) UV (7) (1,3)

(7) UV

(7)가 (1) (2) 가

(7)

Figure 2 consists of three schematic diagrams labeled (a), (b), and (c), illustrating the experimental setup for a two-photon fluorescence experiment. Diagram (a) shows the excitation path: a 405 nm laser beam is directed through a dichroic mirror (DM) and an objective lens to illuminate a sample. Diagram (b) shows the emission path: fluorescence from the sample is collected by the objective lens, passes through the DM, and is then filtered by an emission filter. Diagram (c) shows the detection path: the filtered fluorescence is collected by the objective lens, passes through the DM, and is detected by a detector. The diagrams are arranged in a 2x2 grid, with (a) and (b) in the top row and (c) and (d) in the bottom row. The labels '2a', '2b', '2c', and '2d' are positioned at the bottom of each respective diagram.

, 2a (layer) (50) (30) (30) (20) (10) , (40)

, 2b 가 (30) (40) , 2c

, 가

, 가

, (10) , (10) , 3a ()가 (10) (12) (12)

0) , , 가 (12) 가 UV (1

, 3b (70) UV (12) (75)가 (10) (40) (75) 가 (10) UV , 3b (12)

, (12) 가 (75) 가 (75) , 가 (70) 가

, UV

, 4a, 4b, 4c

4a , 4c UV , (100) UV 1 (700)가 (750)가 (700)

, 1 UV (750) 2 UV (800, 800a, 800b)가

, 4a 1 , 2 UV (800) UV (750)

UV (800) 1 UV (750) , 2

4a , 2 UV (800) 1 UV (750) 가 UV (700)가 UV 가

, 4b , 2 UV (800a) 1 UV (750)

, 4c , 2 UV (800c) 1 UV (750)

, 1 2 UV (700, 750, 800, 800a, 800b, 800c) 가 가

4a 4c
(100)
(100)
가
5a 5e
5a (200) (300) (200)
(polyimide), PVA(polyvinylalcohol), (polyamic acid)
, PVCN(polyvinylcinnamate), PSCN(polysiloxanecinnamate), CeICN(cellulosecinnamate)
(300)
가
(200) (Ag) (dot) (200, 300)
(300) (Ag)
, IPS(In Plane Switching)
(Ag)
5b (300) UV (700) UV
1 UV (700) (750) 2 UV (800) (750) UV
2 UV (800) 1 UV (750) UV
1 UV (750) UV
2 UV (800) 4a 4c
(Screen Printing Method), (Dispensing Method)
가
1 2 UV (700, 750, 800) 가 가
(200) (500)

(500) (500) (700)가 (700) (500)
 (700)가 (200) 가
 , (200) (500) (300) (700, 750, 800) (200)
 UV (700, 750, 800) (300) (500)
 UV (500), UV (700, 750, 800) UV 가 (500)
 UV (700, 750, 800) UV 가
 ,
 ,
 ,
 ,
 , 5c , (200) (300)
 (200) 180 (200) , (300) (layer) 가
 , 5d , (200,300) UV (900) UV
 UV UV (700, 750, 800) (200) (300)
 , UV (700, 800) 가 가 가 UV
 가 120 1 가 UV 가 UV
 , UV UV가 (pretilt angle)
 , 6 (200, 300) UV (900) UV (700) 가 (950)
 , 5e , UV
 가 (: scribing process)
 가 (: break process) /

, / 가
.
(750) 가 , UV 1 2 UV (700) 1 UV (750, 800)
)
, , .
가 가 , 가
7 ,
7 , (200) (300)
00) (200) , , (3
(200) , , IPS
가 , (200, 300) 가 가 ,
(300) .
(200, 300) UV UV (700)가 , 1 UV
(700) (750) 2 UV (800)가 . 1 UV
2 UV (800) .
, (200, 300) UV (700) (500) .
, 가 , ,
UV UV , UV

- (57)
1. UV 가 , UV 1 UV 가 , , 1 UV 2 UV 가 .
 2. 1 , 2 UV 1 UV .

3.
1 ,
2 UV 1 UV ㄱ
.
4.
1 ,
2 UV 1 UV
.
5.
1 ,
.
6.
1 ,
, ,
.
7.
1 ,
가 .
8.
;
1 UV , , 1 UV UV , UV 2 UV
;
;
;
UV .
9.
8 ,
2 UV 1 UV
.
10.
8 ,
2 UV 1 UV ㄱ
.
11.
8 ,
2 UV 1 UV
.

12.

8 ,
 UV UV 가
 .

13.

8 ,
 UV 가 가 .

14.

8 ,
 , 1 2 UV 가
 .

15.

8 ,
 UV 가 .

16.

8 ,
 , 1 2 UV ,
 .

17.

8 .

18.

;
 ;
 , , ;
 ;
 UV ;
 UV 1 UV ;
 1 UV 2 UV ;
 UV .

19.

18 ,
 2 UV 1 UV
 .

20.

18 ,

2 UV

1 UV

7

21.

18

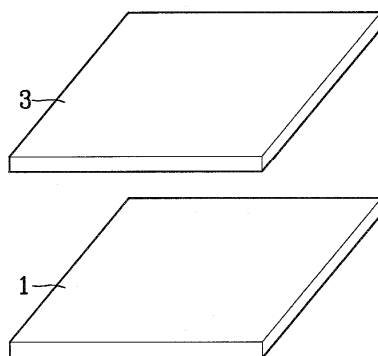
2 UV

1 UV

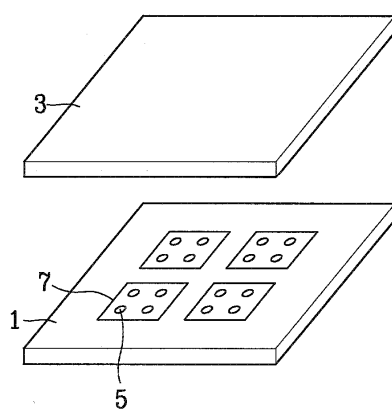
22.

18

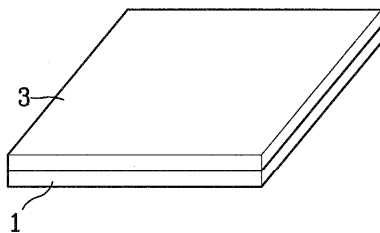
1a



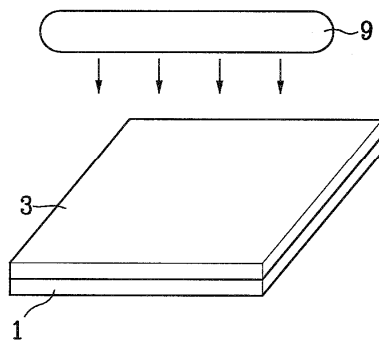
1b



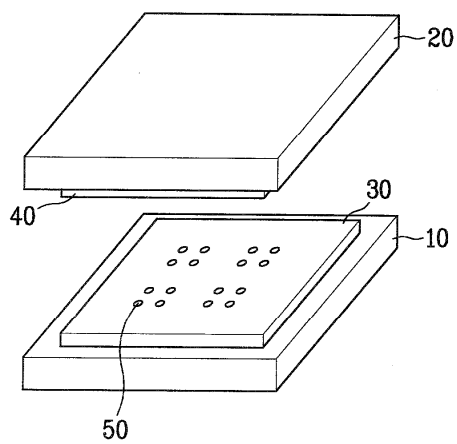
1c



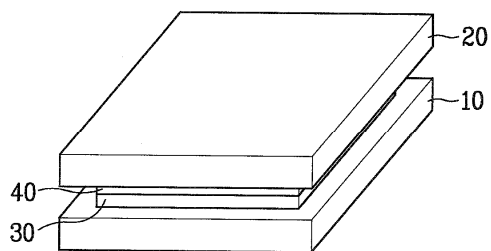
1d

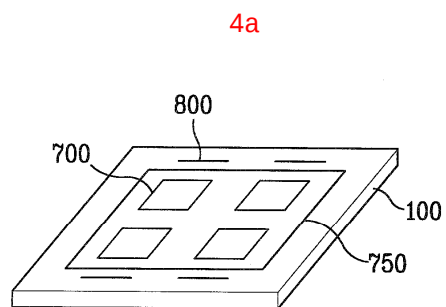
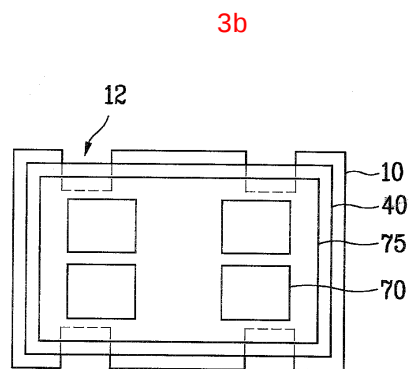
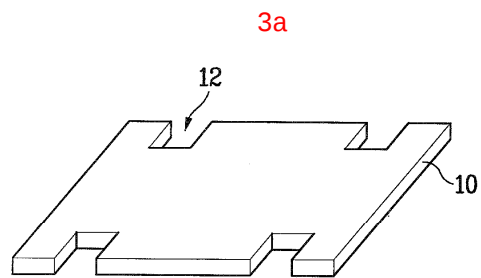
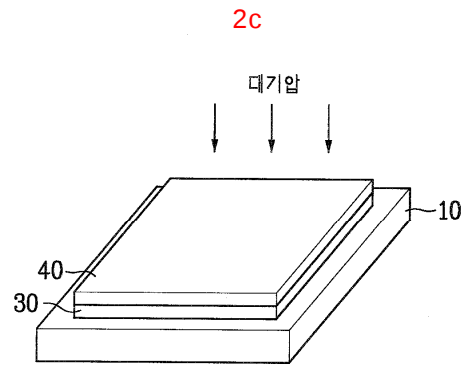


2a

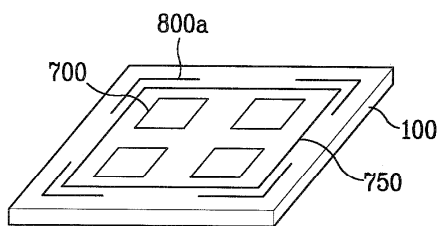


2b

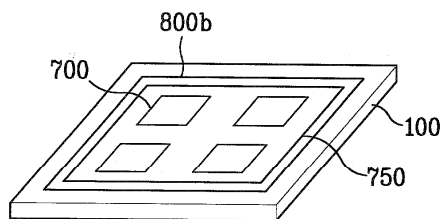




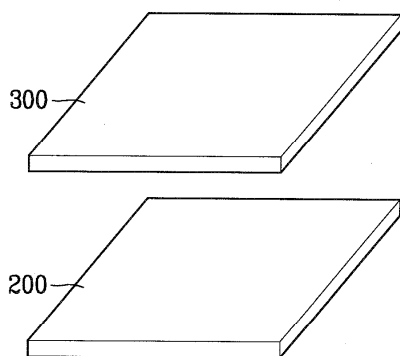
4b



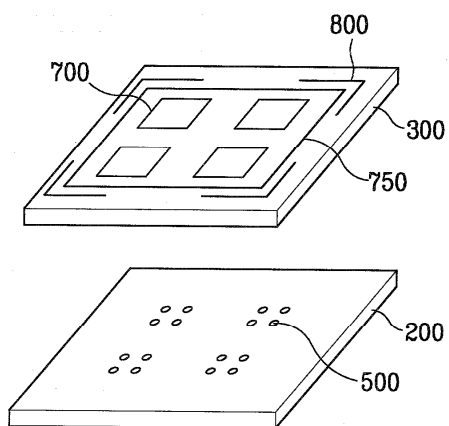
4c



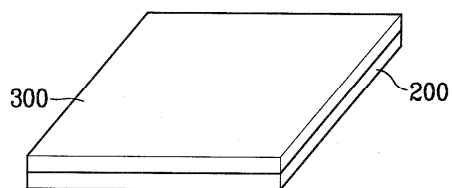
5a



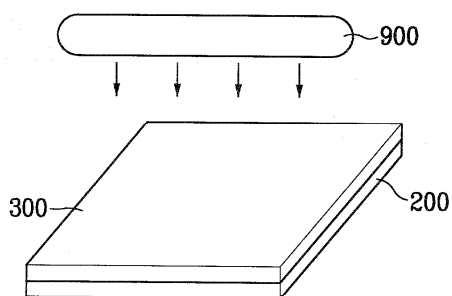
5b



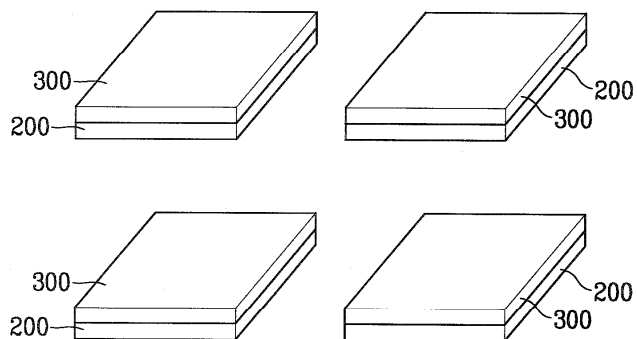
5c



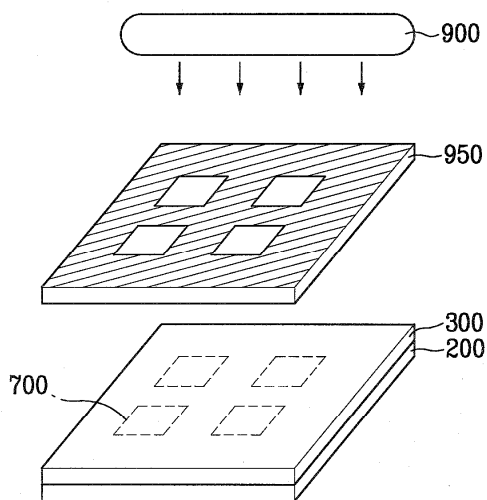
5d



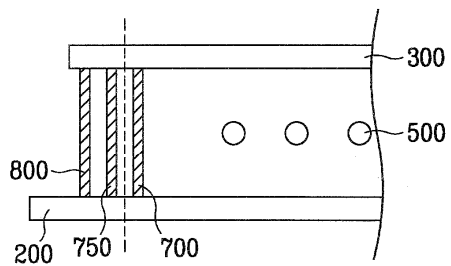
5e



6



7



专利名称(译)	用于液晶显示元件的基板，液晶显示元件及其制造方法		
公开(公告)号	KR1020030075436A	公开(公告)日	2003-09-26
申请号	KR1020020014657	申请日	2002-03-19
[标]申请(专利权)人(译)	乐金显示有限公司		
申请(专利权)人(译)	LG显示器有限公司		
当前申请(专利权)人(译)	LG显示器有限公司		
[标]发明人	PARK MOOYEOL 박무열 JUNG SUNGSU 정성수		
发明人	박무열 정성수		
IPC分类号	G02F1/1339 G02F1/1368 G02F1/1341 B05D7/24 G09F9/00 B05D7/00 G09F9/35		
CPC分类号	G02F1/1339		
代理人(译)	金勇 新昌		
其他公开文献	KR100685952B1		
外部链接	Espacenet		

摘要(译)

本发明涉及一种制备虚设UV可固化密封剂的方法，其中将封闭的主要UV可固化密封剂涂覆在基板上，并将封闭的第一虚设UV可固化密封剂涂覆到主UV可固化密封剂的外部虚设区域，并且，将第二虚设UV可固化密封剂施加到基板的外部区域，包括该基板的液晶显示装置及其制造方法，根据本发明，通过形成用于保护主UV可固化密封剂的双模拟UV可固化密封剂，可以防止主UV可固化密封剂的变形。图4b 指数方面 UV固化型

