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2003 09 26

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(72)

205-1002

102/1504

LG

204/413

(74)

:

(54)

V

;

;

UV

,

U

,

.

3a

1

2a 2d

3a .
3b 3a A - A .
4a 4d .
5 UV .
< >
1, 10 : 3, 30 :
5, 50 : 7, 70 : UV
75 : 9, 90 : UV
95 :

(Liquid Crystal Display : LCD) , ,
가 (cm) (Flat Panel Display),
가 . , , ,
1 , (((1,3) (5) (7)가
1) , (1) , (((1,3) (5) (7)가
3) , (1,3) (5) (7)가
, (1) (3) (5)
,
,
2a 2d .
, 2a , (1) (3) . (1)
,
, (3) , , ,
, , , , ,

, (1) (3) .
 , 2b (3) , (1) (7) () , (5) . ,
 , 가 가 (7) , UV(Ultraviolet)
 가 .
 , 2c (1) (3) .
 , 2d UV (9) UV (7) (1)
 (3) .
 , (1) (5) (1,3) ,
 , ,
 , 가 가 .
 , 가 ,
 , 가 가 가
 , 가 가 가
 , 가 가
 , UV ; UV ,
 UV ;
 UV ; UV
 ,

,
 , UV
 ,
 ,
 3a , 3b 3a A-A
 3a 3b UV (10), (30),
 (10, 30) (70), (10, 30) UV (70)
 (50)
 , UV (70) 3a (75)
 ,
 (75)
 , 가 (75)
 , (75)
 (75)
 ,
 (10)
 , /
 (30)
 , 가
 , IPS(In-Plane Switching) (30)
 (10)
 UV (70) (75)
 (75) (50)
 , (10,30) 가
 (), ().
 4a 4d
 ,
 , 4a (10) (30) (10)
 , /
 ,
 ,
 (polyimide) , PVA(polyvinylalcohol), (polyamic acid)
 , PVCN(polyvinylcinnamate), PSCN(polysiloxanecinnamate), CelCN(celluloseci
 nnamate)
 (30)
 ,
 ,
 가

, (30) (10) (Ag) (dot) (Ag) (10, 30) (30)

, IPS(In Plane Switching) (10)

, (Ag)

, 4b (30) (75) UV

(70) (70) (Screen Printing Method), (Dispensing Method) 가

UV (70) 가 가

, (10) (50) (50)

(50) UV (70)가 (70)

(50) (10)

(50) UV (70)가 가 (50)

0) 가

, 가

, 4b (10) (50) (30) UV (70) (10) UV

(70)

(50) UV (70) UV 가 가

(70)

, UV 가

, (10,30) (30)

, ,

, ,

, ,

, 4c (10) (30)

(10) 180 (10) (30) (layer) (30)

가 , .

4d , UV (900) UV .

UV UV (70) 가

(10) (30) .

UV (70) 가 가 가 UV

가 가 , 가 120 1 , UV

UV UV가 , (pretilt angle) .

5 , UV (70) (95) 가 UV

가

(: scribing process) 가

(: break process) .

가

/ 가

가

가 가 가 .

가

UV

가 /

(57)

1.

;

UV ;

UV .

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

UV

12.

8

UV

UV

가

13.

8

UV

가

가

14.

8

UV

가

15.

8

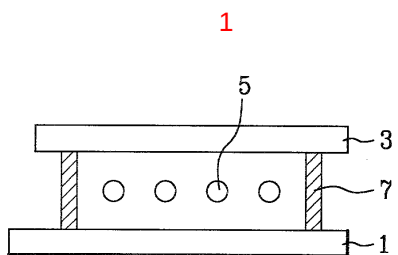
UV

가

16.

8

UV



1

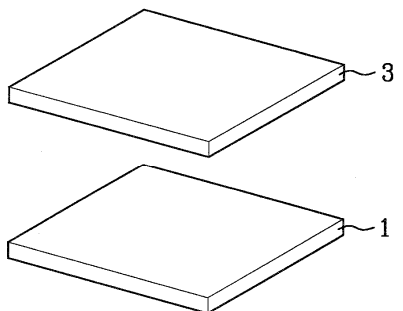
5

3

7

1

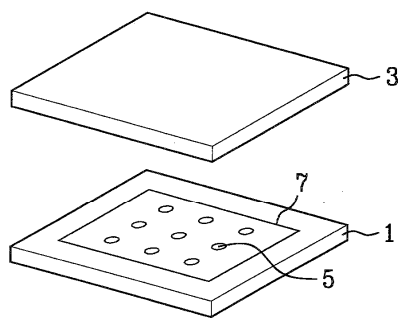
2a



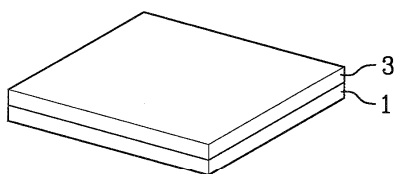
3

1

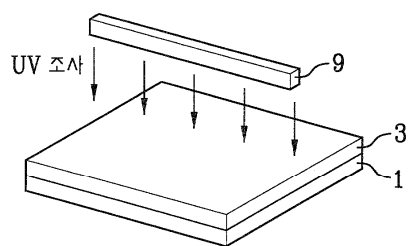
2b



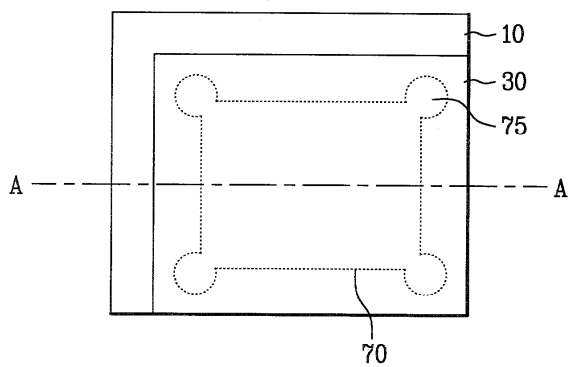
2c

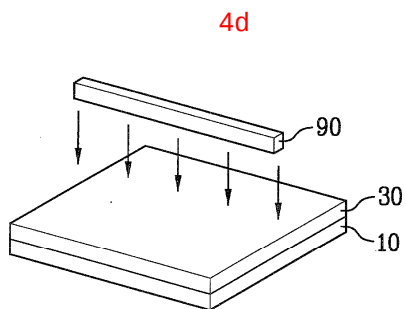
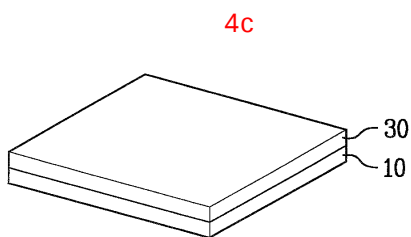
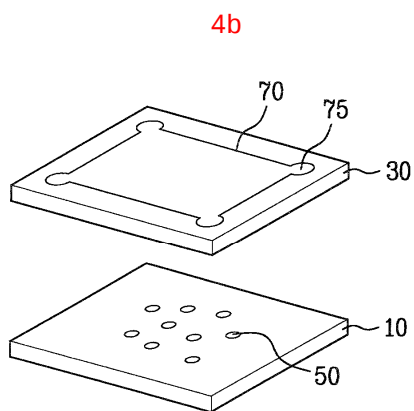
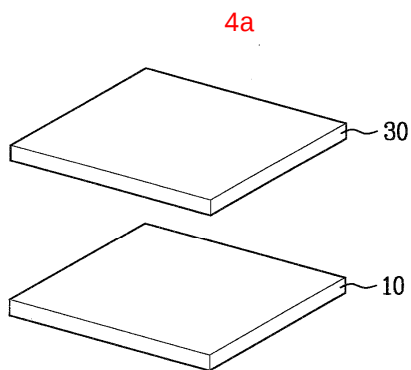
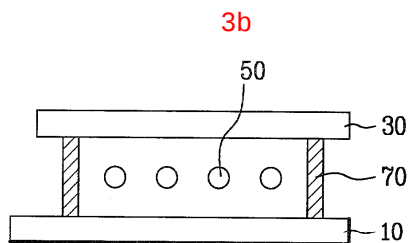


2d

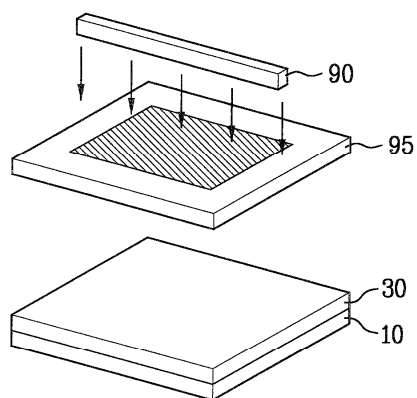


3a





5



专利名称(译)	液晶显示元件及其制造方法		
公开(公告)号	KR1020030075723A	公开(公告)日	2003-09-26
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[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		
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IPC分类号	G02F1/1339 G02F1/1341 G02F1/13		
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代理人(译)	金勇 新昌		
其他公开文献	KR100652050B1		
外部链接	Espacenet		

摘要(译)

本发明涉及液晶显示装置及其制造方法，包括在下板和上板之间形成的液晶层：两个基板之间的UV固化密封剂内的两个基板和UV固化密封剂：按顺序图案化在拐角区域有液晶流量控制元件。并且根据本发明，液晶局部地过度填充或者未填充，并且可以保持均匀的单元间隙。密封胶。

